

41	H-ZLaF56S	806333	H-ZLaF56B	NBFD15		
42	H-ZLaF66S	801350	H-ZLaF66		N-LASF45	S-LAM66
43	H-ZLaF68A	883408	H-ZLaF68	TAFD30	N-LASF31	S-LAH58
44	H-ZLaF68B	883408	H-ZLaF68C	TAFD30	N-LASF31	S-LAH58
45	H-ZLaF69A	816465	H-ZLaF69	TAF5		S-LAH59
46	H-ZLaF71S	850323	H-ZLaF71		N-LASF9	S-LAH71
47	H-ZLaF75S	904313	H-ZLaF75A	TAFD25	N-LASF46A	
48	H-ZLaF76S	850301	H-ZLaF76			
49	H-ZLaF78A	901371	H-ZLaF78B			
50	H-ZLaF89S	954323	H-ZLaF89L	TAFD45		S-LAH98
51	H-ZLaF90S	001254	H-ZLaF90	TAFD40		
52	H-ZLaF92S	003283	H-ZLaF92			S-LAH79
53	H-ZF7S	805255	H-ZF7LA	FD60	N-SF6	S-TIH6
54	H-ZF13S	785257	H-ZF13	FD110	N-SF11	S-TIH11
55	H-ZF52S	847238	H-ZF52	FDS90	N-SF57	S-TIH53
56	H-ZF62S	923209	H-ZF62	E-FDS1	N-SF66	
57	H-ZF71S	808227	H-ZF71	FD225		S-NPH1
58	H-ZF72S	923189	H-ZF72A			S-NPH2
59	H-ZF88S	946179	H-ZF88	FDS18		
60	H-ZPK1S	618634	H-ZPK1A	PCD4	N-PSK53A	S-PHM52
61	H-ZPK2S	603655	H-ZPK2A			S-PHM53
62	D-K9S	516641	D-K9		P-BK7	L-BSL7
63	D-ZK2S	583594	D-ZK2	M-BACD12		L-BAL42
64	D-ZK3S	589612	D-ZK3	M-BACD5N	P-SK58A	L-BAL35
65	D-LaK6S	694531	D-LaK6	M-LAC130	P-LAK35	L-LAL13
66	D-LaF53S	743493	D-LaF53	M-NBF1		L-LAM60
67	D-ZLaF52S	810410	D-ZLaF52LA		P-LASF51	

HIKARI	NHG
J-LAF3	H-LaF2
J-LAF2	H-LaF3B
J-LAF2	H-LaF3B
J-LAF7	H-LaF4
	H-LaF10A
J-LASF016	H-LaF50
J-LAF01	
J-LASF01	H-LaF52
J-LAF010	H-LaF53
	H-LaF54
	H-LaF54
J-LAK01	
	H-LaK7
	H-LaK8A
	H-LaK50
J-LAK14	H-LaK51
	H-LaK52
J-LASKH2	H-LaK53A
J-LAK09	
	H-ZLaF72
	H-ZLaF50
	H-ZLaF51
	H-ZLaF52
J-LASF010	H-ZLaF53

J-LASF05	H-ZLaF55F
J-LAF016	H-ZLaF66
	H-ZLaF68A
	H-ZLaF54
J-LASFH13	H-ZLaF75
	H-ZLaF78
J-LASFH21	H-ZLaF77A
J-LASFH17	H-ZLaF80
J-SF6	H-ZF7L
J-SF11	H-ZF13
J-SF03	
	H-ZF62
J-SFH1	
	H-ZF72B
	H-ZF75A
	H-PK62A
	H-PK63
	D-K9
	D-ZK2N
	D-ZK3L
	D-LaK6
	D-LaF743
	D-ZLaF52N

H-LaF2S	717479	$n_d = 1.71700$	$v_d = 47.90$	$n_F - n_C = 0.01497$	
		$n_e = 1.72056$	$v_e = 47.66$	$n_{F'} - n_{C'} = 0.01512$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.70107
n_r	706.5	1.70997
n_c	656.3	1.71248
$n_{c'}$	643.8	1.71320
n_{He-Ne}	632.8	1.71387
n_D	589.3	1.71687
n_d	587.6	1.71700
n_e	546.1	1.72056
n_F	486.1	1.72745
$n_{F'}$	480.0	1.72832
n_g	435.8	1.73584
n_h	404.7	1.74291
n_i	365.0	1.75526

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3019	$P'_{d,C'}$	0.2513
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2354
$P_{g,F}$	0.5605	$P'_{g,F'}$	0.4974

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.890	0.800
2200	0.956	0.913
2000	0.982	0.965
1800	0.992	0.984
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.996
600	0.998	0.996
550	0.997	0.995
500	0.996	0.993
480	0.995	0.991
460	0.993	0.987
440	0.992	0.984
420	0.989	0.978
400	0.977	0.954
390	0.962	0.925
380	0.934	0.873
370	0.880	0.770
360	0.770	0.590
350	0.570	0.320
340	0.260	0.070
330		
320		
310		
300		
290		
280		

Chemical Properties	
Grade	
RC(S)	1
RA(S)	3
D_W	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	666
T_S (°C)	704
$T_{10}^{14.5}$ (°C)	612
T_{10}^{13} (°C)	650
$T_{10}^{7.6}$ (°C)	772
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	79
$\alpha_{100/300^\circ C}$ ($10^{-7}/K$)	91
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.87222930E+000
A_1	-5.70883560E-003
A_2	2.92421750E-002
A_3	-1.46115320E-003
A_4	2.52525250E-004
A_5	-1.08672410E-005

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	561
F_A	205
E (10^7 Pa)	9061
G (10^7 Pa)	3524
μ	0.286
B (10^{-12} /Pa)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0032
$\Delta P_{g,F}$	-0.0036

屈折率温度係数定数	
Constants of dn/dt	
D_0	-4.12E-06
D_1	2.75E-08
D_2	-1.05E-10
E_0	8.05E-07
E_1	-8.24E-10
λ_{TK} (μm)	0.107

その他の特性	
Other Properties	
ρ (g/cm^3)	4.22

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^\circ C$)					
	t	C'	d	e	F'	g
-40~-20	-1.0	-0.6	-0.3	-0.1	0.5	0.8
-20~0	-1.0	-0.6	-0.3	0.0	0.5	1.0
0~20	-0.6	0.1	0.6	0.7	1.4	1.8
20~40	-0.2	0.7	1.0	1.2	1.5	2.0
40~60	0.2	0.8	1.0	1.1	1.6	2.2
60~80	0.3	0.9	1.1	1.2	1.7	2.4

着色度	
Coloration Code	
λ_{80}/λ_5	39/34

H-LaF3S	744449	$n_d = 1.74400$	$v_d = 44.90$	$n_F - n_C = 0.01657$	
		$n_e = 1.74794$	$v_e = 44.63$	$n_{F'} - n_{C'} = 0.01676$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.72670
n_r	706.5	1.73630
n_C	656.3	1.73906
$n_{C'}$	643.8	1.73984
n_{He-Ne}	632.8	1.74057
n_D	589.3	1.74386
n_d	587.6	1.74400
n_e	546.1	1.74794
n_F	486.1	1.75563
$n_{F'}$	480.0	1.75660
n_g	435.8	1.76502
n_h	404.7	1.77298
n_i	365.0	1.78694

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2981	$P'_{d,C'}$	0.2482
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2351
$P_{g,F}$	0.5667	$P'_{g,F'}$	0.5024

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.902	0.814
2200	0.957	0.915
2000	0.960	0.921
1800	0.990	0.980
1600	0.997	0.994
1400	0.998	0.996
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.996
700	0.998	0.997
650	0.998	0.997
600	0.999	0.998
550	0.999	0.999
500	0.998	0.997
480	0.998	0.997
460	0.997	0.995
440	0.996	0.992
420	0.994	0.988
400	0.986	0.973
390	0.978	0.957
380	0.961	0.923
370	0.923	0.852
360	0.843	0.710
350	0.671	0.450
340	0.352	0.124
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	3

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.96108042E+000
A_1	-7.45575504E-003
A_2	2.93975240E-002
A_3	-7.09734612E-004
A_4	1.79647406E-004
A_5	-7.42813844E-006

熱特性	
Thermal Properties	
T_g (°C)	645
T_S (°C)	701
$T_{10}^{14.5}$ (°C)	582
T_{10}^{13} (°C)	616
$T_{10}^{7.6}$ (°C)	751
$\alpha_{20/120}$ ($10^{-7}/K$)	85
$\alpha_{100/300}$ ($10^{-7}/K$)	100
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0010
$\Delta P_{g,F}$	-0.0025

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	568
F_A	182
E ($10^7 Pa$)	9781
G ($10^7 Pa$)	3780
μ	0.294
B ($10^{-12}/Pa$)	1.51

その他の特性	
Other Properties	
ρ (g/cm^3)	4.32

屈折率温度係数定数	
Constants of dn/dt	
D_0	-2.32E-06
D_1	1.48E-08
D_2	-1.59E-10
E_0	5.14E-07
E_1	6.02E-10
λ_{TK} (μm)	0.283

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^\circ C$)					
	t	C'	d	e	F'	g
-40~-20	-0.5	0.1	0.2	0.2	0.6	1.6
-20~0	0.4	0.9	1.2	1.5	2.4	2.9
0~20	0.2	0.8	1.2	1.9	2.1	2.6
20~40	0.7	1.2	1.4	1.7	2.0	3.2
40~60	0.6	1.1	1.2	1.2	2.7	3.4
60~80	0.6	1.2	1.5	1.7	2.5	3.2

着色度	
Coloration Code	
λ_{80}/λ_5	38/34

H-LaF3B 744449	$n_d = 1.74400$	$\nu_d = 44.90$	$n_F - n_C =$
	$n_e = 1.74794$	$\nu_e = 44.63$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.72670
n_r	706.5	1.73630
n_C	656.3	1.73906
$n_{C'}$	643.8	1.73984
n_{He-Ne}	632.8	1.74057
n_D	589.3	1.74386
n_d	587.6	1.74400
n_e	546.1	1.74794
n_F	486.1	1.75563
$n_{F'}$	480.0	1.75660
n_g	435.8	1.76502
n_h	404.7	1.77298
n_i	365.0	1.78694

色散公式定数	
Constants of Dispersion Formula	
A_0	2.96108042E+000
A_1	-7.45575504E-003
A_2	2.93975240E-002
A_3	-7.09734612E-004
A_4	1.79647406E-004
A_5	-7.42813844E-006

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0010
$\Delta P_{g, F}$	-0.0025

その他の特性	
Other Properties	
ρ (g/cm ³)	4.39

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.2981	$P'_{d, C'}$	0.2482
$P_{e, d}$	0.2378	$P'_{e, d}$	0.2351
$P_{g, F}$	0.5667	$P'_{g, F'}$	0.5024

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	650
T_S (°C)	714
$T_{10}^{14.5}$ (°C)	582
T_{10}^{13} (°C)	616
$T_{10}^{7.6}$ (°C)	751
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	80
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	97
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	568
F_A	182
E (10 ⁷ Pa)	9781
G (10 ⁷ Pa)	3780
μ	0.294
B (10 ⁻¹² /Pa)	1.51

屈折率温度係数定数	
Constants of dn/dt	
D_0	-2.32E-06
D_1	1.48E-08
D_2	-1.59E-10
E_0	5.14E-07
E_1	6.02E-10
λ_{TK} (μm)	0.283

内部透過率	
Internal Transmittance	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-0.5	0.1	0.2	0.2	0.6	1.6
-20~0	0.4	0.9	1.2	1.5	2.4	2.9
0~20	0.2	0.8	1.2	1.9	2.1	2.6
20~40	0.7	1.2	1.4	1.7	2.0	3.2
40~60	0.6	1.1	1.2	1.2	2.7	3.4
60~80	0.6	1.2	1.5	1.7	2.5	3.2

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

on Code
38/34
90

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H-LaF52S	786442	$n_d = 1.78590$	$v_d = 44.20$	$n_F - n_C = 0.01778$	
		$n_e = 1.79013$	$v_e = 43.92$	$n_{F'} - n_{C'} = 0.01799$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.76701
n_r	706.5	1.77762
n_c	656.3	1.78059
$n_{c'}$	643.8	1.78142
n_{He-Ne}	632.8	1.78221
n_D	589.3	1.78574
n_d	587.6	1.78590
n_e	546.1	1.79013
n_F	486.1	1.79837
$n_{F'}$	480.0	1.79941
n_g	435.8	1.80831
n_h	404.7	1.81684
n_i	365.0	1.83164

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2987	$P'_{d,C'}$	0.249
$P_{e,d}$	0.2379	$P'_{e,d}$	0.2351
$P_{g,F}$	0.5591	$P'_{g,F'}$	0.4947

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.760	0.580
2200	0.880	0.770
2000	0.968	0.937
1800	0.978	0.956
1600	0.992	0.985
1400	0.997	0.995
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.996
700	0.995	0.990
650	0.994	0.989
600	0.994	0.988
550	0.994	0.988
500	0.992	0.984
480	0.990	0.980
460	0.988	0.976
440	0.984	0.969
420	0.978	0.957
400	0.964	0.929
390	0.949	0.900
380	0.927	0.860
370	0.890	0.790
360	0.840	0.700
350	0.760	0.580
340	0.660	0.430
330	0.490	0.240
320	0.240	0.060
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	2

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.10868850E+000
A_1	-1.35809900E-002
A_2	2.79016190E-002
A_3	4.60094920E-004
A_4	3.20811470E-005
A_5	-2.81458930E-007

熱特性	
Thermal Properties	
T_g (°C)	605
T_S (°C)	633
$T_{10}^{14.5}$ (°C)	558
T_{10}^{13} (°C)	584
$T_{10}^{7.6}$ (°C)	686
$\alpha_{20/120}$ ($10^{-7}/K$)	56
$\alpha_{100/300}$ ($10^{-7}/K$)	66
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0113

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	668
F_A	
E ($10^7 Pa$)	11290
G ($10^7 Pa$)	4350
μ	0.297
B ($10^{-12}/Pa$)	

その他の特性	
Other Properties	
ρ (g/cm ³)	4.37

屈折率温度係数定数	
Constants of dn/dt	
D_0	7.56E-06
D_1	1.95E-08
D_2	-5.14E-11
E_0	6.79E-07
E_1	7.10E-10
λ_{TK} (μm)	0.233

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	5.8	6.1	6.6	7.3	8.1	8.5
-20~0	6.3	6.7	7.4	7.8	8.3	8.9
0~20	6.6	7.5	7.6	7.9	8.5	9.5
20~40	6.6	7.6	7.8	7.9	9.2	9.6
40~60	6.7	8.1	8.3	8.4	9.3	10.3
60~80	7.2	8.2	8.3	8.7	9.6	10.6

着色度	
Coloration Code	
λ_{80}/λ_5	40/32

H-LaF54S	800422	$n_d = 1.79952$	$v_d = 42.24$	$n_F - n_C = 0.01893$	
		$n_e = 1.80401$	$v_e = 41.98$	$n_{F'} - n_{C'} = 0.01915$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.77964
n_r	706.5	1.79071
n_c	656.3	1.79387
$n_{c'}$	643.8	1.79476
n_{He-Ne}	632.8	1.79560
n_D	589.3	1.79934
n_d	587.6	1.79952
n_e	546.1	1.80401
n_F	486.1	1.81280
$n_{F'}$	480.0	1.81391
n_g	435.8	1.82355
n_h	404.7	1.83271
n_i	365.0	1.84881

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2985	$P'_{d,C'}$	0.2486
$P_{e,d}$	0.2372	$P'_{e,d}$	0.2345
$P_{g,F}$	0.5679	$P'_{g,F'}$	0.5034

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.850	0.730
2200	0.960	0.921
2000	0.984	0.969
1800	0.995	0.990
1600	0.998	0.996
1400	0.999	0.998
1200	0.999	0.998
1060	0.998	0.997
1000	0.998	0.997
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.997
700	0.998	0.997
650	0.998	0.997
600	0.998	0.996
550	0.997	0.995
500	0.997	0.994
480	0.996	0.993
460	0.995	0.991
440	0.992	0.985
420	0.987	0.974
400	0.974	0.949
390	0.961	0.924
380	0.949	0.900
370	0.900	0.810
360	0.820	0.680
350	0.680	0.460
340	0.380	0.150
330	0.080	0.010
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	2

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.14470200E+000
A_1	-1.01059060E-002
A_2	3.43096970E-002
A_3	-8.33127910E-004
A_4	2.17008430E-004
A_5	-8.70147900E-006

熱特性	
Thermal Properties	
T_g (°C)	602
T_S (°C)	630
$T_{10}^{14.5}$ (°C)	559
T_{10}^{13} (°C)	587
$T_{10}^{7.6}$ (°C)	687
$\alpha_{20/120}$ ($10^{-7}/K$)	59
$\alpha_{100/300}$ ($10^{-7}/K$)	70
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0059

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	698
F_A	104
E ($10^7 Pa$)	11076
G ($10^7 Pa$)	4249
μ	0.303
B ($10^{-12}/Pa$)	

その他の特性	
Other Properties	
ρ (g/cm^3)	4.46

屈折率温度係数定数	
Constants of dn/dt	
D_0	6.31E-06
D_1	2.13E-08
D_2	9.75E-11
E_0	1.02E-06
E_1	2.29E-10
λ_{TK} (μm)	0.077

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	6.0	7.0	7.3	7.6	8.1	9.1
-20~0	6.0	7.0	7.2	7.4	8.7	9.1
0~20	5.9	7.1	7.2	7.7	8.4	9.1
20~40	6.2	7.3	8.0	8.2	8.5	9.3
40~60	6.8	7.5	8.5	8.7	9.3	10.0
60~80	7.4	8.1	8.6	9.1	9.9	11.1

着色度	
Coloration Code	
λ_{80}/λ_5	40/34

H-LaF54A	800422	$n_d = 1.79952$	$v_d = 42.24$	$n_F - n_C = 0.01893$	
		$n_e = 1.80401$	$v_e = 41.98$	$n_{F'} - n_{C'} = 0.01915$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.77964
n_r	706.5	1.79071
n_c	656.3	1.79387
$n_{c'}$	643.8	1.79476
n_{He-Ne}	632.8	1.79560
n_D	589.3	1.79934
n_d	587.6	1.79952
n_e	546.1	1.80401
n_F	486.1	1.81280
$n_{F'}$	480.0	1.81391
n_g	435.8	1.82355
n_h	404.7	1.83271
n_i	365.0	1.84881

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2985	$P'_{d,C'}$	0.2486
$P_{e,d}$	0.2372	$P'_{e,d}$	0.2345
$P_{g,F}$	0.5679	$P'_{g,F'}$	0.5034

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.850	0.730
2200	0.960	0.921
2000	0.984	0.969
1800	0.995	0.990
1600	0.998	0.996
1400	0.999	0.998
1200	0.999	0.998
1060	0.998	0.997
1000	0.998	0.997
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.997
700	0.998	0.997
650	0.998	0.997
600	0.998	0.996
550	0.997	0.995
500	0.997	0.994
480	0.996	0.993
460	0.995	0.991
440	0.992	0.985
420	0.987	0.974
400	0.974	0.949
390	0.961	0.924
380	0.949	0.900
370	0.900	0.810
360	0.820	0.680
350	0.680	0.460
340	0.380	0.150
330	0.080	0.010
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	2

熱特性	
Thermal Properties	
T_g (°C)	664
T_S (°C)	699
$T_{10}^{14.5}$ (°C)	
T_{10}^{13} (°C)	
$T_{10}^{7.6}$ (°C)	
$\alpha_{20/120}$ ($10^{-7}/K$)	63
$\alpha_{100/300}$ ($10^{-7}/K$)	78
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.14470200E+000
A_1	-1.01059060E-002
A_2	3.43096970E-002
A_3	-8.33127910E-004
A_4	2.17008430E-004
A_5	-8.70147900E-006

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	698
F_A	104
E (10^7 Pa)	11076
G (10^7 Pa)	4249
μ	0.303
B (10^{-12} /Pa)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0059

屈折率温度係数定数	
Constants of dn/dt	
D_0	6.31E-06
D_1	2.13E-08
D_2	9.75E-11
E_0	1.02E-06
E_1	2.29E-10
λ_{TK} (μm)	0.077

その他の特性	
Other Properties	
ρ (g/cm ³)	4.23

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	6.0	7.0	7.3	7.6	8.1	9.1
-20~0	6.0	7.0	7.2	7.4	8.7	9.1
0~20	5.9	7.1	7.2	7.7	8.4	9.1
20~40	6.2	7.3	8.0	8.2	8.5	9.3
40~60	6.8	7.5	8.5	8.7	9.3	10.0
60~80	7.4	8.1	8.6	9.1	9.9	11.1

着色度	
Coloration Code	
λ_{80}/λ_5	40/34

H-LaK1S	660574	$n_d = 1.65950$	$v_d = 57.35$	$n_F - n_C = 0.01150$	
		$n_e = 1.66224$	$v_e = 57.09$	$n_{F'} - n_{C'} = 0.01160$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.64671
n_r	706.5	1.65403
n_c	656.3	1.65600
$n_{c'}$	643.8	1.65656
n_{He-Ne}	632.8	1.65708
n_D	589.3	1.65940
n_d	587.6	1.65950
n_e	546.1	1.66224
n_F	486.1	1.66750
$n_{F'}$	480.0	1.66816
n_g	435.8	1.67376
n_h	404.7	1.67896
n_i	365.0	1.68783

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3043	$P'_{d,C'}$	0.2534
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2362
$P_{g,F}$	0.5443	$P'_{g,F'}$	0.4828

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.890	0.790
2200	0.966	0.933
2000	0.990	0.981
1800	0.997	0.994
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.998	0.996
800	0.996	0.992
700	0.995	0.991
650	0.995	0.990
600	0.995	0.990
550	0.995	0.990
500	0.994	0.989
480	0.993	0.987
460	0.992	0.985
440	0.991	0.983
420	0.990	0.981
400	0.987	0.974
390	0.983	0.966
380	0.976	0.952
370	0.963	0.927
360	0.939	0.880
350	0.901	0.810
340	0.840	0.700
330	0.740	0.550
320	0.620	0.380
310	0.470	0.220
300	0.320	0.100
290	0.200	0.040
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	3
D_A	6

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.70432460E+000
A_1	-1.00067790E-002
A_2	1.81022540E-002
A_3	-2.16494880E-005
A_4	3.81507480E-005
A_5	-1.57874420E-006

熱特性	
Thermal Properties	
T_g (°C)	655
T_S (°C)	683
$T_{10}^{14.5}$ (°C)	601
T_{10}^{13} (°C)	629
$T_{10}^{7.6}$ (°C)	739
$\alpha_{20/120}$ ($10^{-7}/K$)	80
$\alpha_{100/300}$ ($10^{-7}/K$)	87
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0010
$\Delta P_{g,F}$	-0.0037

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	560
F_A	176
E ($10^7 Pa$)	8873
G ($10^7 Pa$)	3463
μ	0.281
B ($10^{-12}/Pa$)	1.45

その他の特性	
Other Properties	
ρ (g/cm^3)	3.94

屈折率温度係数定数	
Constants of dn/dt	
D_0	-5.01E-06
D_1	2.49E-08
D_2	-4.65E-11
E_0	5.72E-07
E_1	-7.93E-10
λ_{TK} (μm)	0.060

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	-1.8	-1.4	-0.5	-0.2	-0.1	0.2
-20~0	-1.1	-0.8	-0.4	-0.3	-0.1	0.1
0~20	-1.1	-0.6	-0.4	-0.2	0.0	0.2
20~40	-0.5	-0.1	0.0	0.2	0.4	0.8
40~60	-0.2	0.0	0.0	0.2	0.6	1.0
60~80	-0.2	-0.1	0.0	0.2	0.7	1.2

着色度	
Coloration Code	
λ_{80}/λ_5	36/29

H-LaK2S	692545	$n_d = 1.69211$	$v_d = 54.54$	$n_F - n_C = 0.01269$	
		$n_e = 1.69514$	$v_e = 54.27$	$n_{F'} - n_{C'} = 0.01281$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.67814
n_r	706.5	1.68610
n_c	656.3	1.68827
$n_{c'}$	643.8	1.68888
n_{He-Ne}	632.8	1.68945
n_D	589.3	1.69200
n_d	587.6	1.69211
n_e	546.1	1.69514
n_F	486.1	1.70096
$n_{F'}$	480.0	1.70169
n_g	435.8	1.70791
n_h	404.7	1.71369
n_i	365.0	1.72359

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3026	$P'_{d,C'}$	0.2521
$P_{e,d}$	0.2388	$P'_{e,d}$	0.2365
$P_{g,F}$	0.5477	$P'_{g,F'}$	0.4856

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.820	0.673
2200	0.932	0.869
2000	0.975	0.950
1800	0.988	0.977
1600	0.995	0.991
1400	0.997	0.994
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.997	0.995
700	0.997	0.995
650	0.997	0.995
600	0.997	0.995
550	0.997	0.995
500	0.997	0.994
480	0.996	0.992
460	0.995	0.990
440	0.993	0.987
420	0.991	0.983
400	0.985	0.970
390	0.977	0.954
380	0.961	0.923
370	0.928	0.862
360	0.872	0.761
350	0.783	0.613
340	0.650	0.422
330	0.489	0.239
320	0.319	0.102
310	0.184	0.034
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	3
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	632
T_S (°C)	660
$T_{10}^{14.5}$ (°C)	589
T_{10}^{13} (°C)	612
$T_{10}^{7.6}$ (°C)	710
$\alpha_{20/120}$ ($10^{-7}/K$)	83
$\alpha_{100/300}$ ($10^{-7}/K$)	97
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.80801070E+000
A_1	-1.09758890E-002
A_2	1.97813050E-002
A_3	1.43229800E-004
A_4	2.39192840E-005
A_5	-7.82772540E-007

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	
F_A	159
E (10^7 Pa)	9415
G (10^7 Pa)	3635
μ	0.295
B (10^{-12} /Pa)	1.50

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0013
$\Delta P_{g,F}$	-0.0051

屈折率温度係数定数	
Constants of dn/dt	
D_0	-5.27E-06
D_1	1.89E-08
D_2	-6.19E-11
E_0	5.63E-07
E_1	8.12E-10
λ_{TK} (μm)	0.135

その他の特性	
Other Properties	
ρ (g/cm ³)	3.94

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	-1.7	-1.4	-1.1	-0.8	-0.5	-0.4
-20~0	-1.3	-1.1	-0.9	-0.6	-0.4	-0.3
0~20	-1.0	-0.7	-0.4	-0.2	0.0	0.5
20~40	-1.0	-0.3	-0.3	-0.1	0.2	0.6
40~60	-0.9	-0.1	-0.1	0.1	0.8	0.9
60~80	-0.4	-0.1	0.0	0.3	0.8	1.2

着色度	
Coloration Code	
λ_{80}/λ_5	38/32

H-LaK3S	747510	$n_d = 1.74693$	$v_d = 50.95$	$n_F - n_C = 0.01466$	
		$n_e = 1.75042$	$v_e = 50.74$	$n_{F'} - n_{C'} = 0.01479$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.73074
n_r	706.5	1.73999
n_c	656.3	1.74250
$n_{c'}$	643.8	1.74320
n_{He-Ne}	632.8	1.74386
n_D	589.3	1.74680
n_d	587.6	1.74693
n_e	546.1	1.75042
n_F	486.1	1.75716
$n_{F'}$	480.0	1.75799
n_g	435.8	1.76518
n_h	404.7	1.77193
n_i	365.0	1.78336

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3022	$P'_{d,C'}$	0.2522
$P_{e,d}$	0.2381	$P'_{e,d}$	0.236
$P_{g,F}$	0.5471	$P'_{g,F'}$	0.4861

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.820	0.670
2200	0.951	0.905
2000	0.983	0.966
1800	0.996	0.992
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.997
700	0.997	0.995
650	0.997	0.995
600	0.997	0.995
550	0.997	0.994
500	0.994	0.988
480	0.991	0.983
460	0.988	0.977
440	0.985	0.971
420	0.982	0.965
400	0.977	0.954
390	0.971	0.942
380	0.959	0.920
370	0.939	0.881
360	0.900	0.810
350	0.840	0.700
340	0.720	0.520
330	0.510	0.260
320	0.220	0.050
310	0.030	
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	3

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.98365370E+000
A_1	-1.23163830E-002
A_2	2.55848950E-002
A_3	-5.70810680E-004
A_4	1.47648020E-004
A_5	-7.54741060E-006

熱特性	
Thermal Properties	
T_g (°C)	663
T_S (°C)	689
$T_{10}^{14.5}$ (°C)	603
T_{10}^{13} (°C)	634
$T_{10}^{7.6}$ (°C)	742
$\alpha_{20/120}$ ($10^{-7}/K$)	62
$\alpha_{100/300}$ ($10^{-7}/K$)	74
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0020
$\Delta P_{g,F}$	-0.0118

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	672
F_A	110
E ($10^7 Pa$)	11471
G ($10^7 Pa$)	4589
μ	0.250
B ($10^{-12}/Pa$)	

その他の特性	
Other Properties	
ρ (g/cm ³)	4.08

屈折率温度係数定数	
Constants of dn/dt	
D_0	
D_1	
D_2	
E_0	
E_1	
λ_{TK} (μm)	

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.9	2.8	3.1	3.2	3.9	4.3
-20~0	2.7	3.2	3.9	4.0	4.4	4.6
0~20	2.9	3.6	4.1	4.5	4.9	5.3
20~40	3.5	4.1	4.2	4.5	5.2	5.8
40~60	4.0	4.5	4.8	5.1	5.4	5.9
60~80	4.4	4.6	4.8	5.2	5.7	8.2

着色度	
Coloration Code	
λ_{70}/λ_5	38/32

H-LaK4S	640602	$n_d = 1.64000$	$\nu_d = 60.20$	$n_F - n_C = 0.01063$	
		$n_e = 1.64254$	$\nu_e = 60.00$	$n_{F'} - n_{C'} = 0.01071$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.62754
n_r	706.5	1.63486
n_c	656.3	1.63674
$n_{c'}$	643.8	1.63726
n_{He-Ne}	632.8	1.63775
n_D	589.3	1.63990
n_d	587.6	1.64000
n_e	546.1	1.64254
n_F	486.1	1.64737
$n_{F'}$	480.0	1.64797
n_g	435.8	1.65308
n_h	404.7	1.65780
n_i	365.0	1.66581

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3068	$P'_{d,C'}$	0.2559
$P_{e,d}$	0.2387	$P'_{e,d}$	0.2369
$P_{g,F}$	0.5370	$P'_{g,F'}$	0.4771

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.760	0.580
2200	0.918	0.842
2000	0.975	0.951
1800	0.990	0.980
1600	0.995	0.991
1400	0.998	0.996
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.997
600	0.998	0.997
550	0.998	0.996
500	0.997	0.995
480	0.997	0.994
460	0.995	0.991
440	0.994	0.988
420	0.992	0.984
400	0.987	0.974
390	0.981	0.963
380	0.971	0.943
370	0.953	0.908
360	0.920	0.847
350	0.870	0.760
340	0.790	0.630
330	0.690	0.470
320	0.560	0.310
310	0.420	0.170
300	0.290	0.080
290	0.190	0.040
280	0.120	0.010

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	4
D_A	4

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.64769830E+000
A_1	-1.37710800E-002
A_2	1.56650450E-002
A_3	9.82676340E-005
A_4	2.21123480E-005
A_5	-1.07455500E-006

熱特性	
Thermal Properties	
T_g (°C)	666
T_S (°C)	686
$T_{10}^{14.5}$ (°C)	610
T_{10}^{13} (°C)	639
$T_{10}^{7.6}$ (°C)	735
$\alpha_{20/120}$ ($10^{-7}/K$)	63
$\alpha_{100/300}$ ($10^{-7}/K$)	78
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0062

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	634
F_A	129
E ($10^7 Pa$)	10903
G ($10^7 Pa$)	4236
μ	0.287
B ($10^{-12}/Pa$)	1.99

その他の特性	
Other Properties	
ρ (g/cm ³)	2.99

屈折率温度係数定数	
Constants of dn/dt	
D_0	1.06E-06
D_1	1.84E-08
D_2	-7.40E-11
E_0	2.79E-07
E_1	6.19E-10
λ_{TK} (μm)	0.275

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.4	1.8	1.9	2.0	2.2	2.7
-20~0	2.0	2.2	2.3	2.4	2.4	3.1
0~20	2.1	2.2	2.4	2.7	2.9	3.2
20~40	2.2	2.5	2.6	2.7	3.3	3.7
40~60	2.3	2.8	3.0	3.1	3.4	3.7
60~80	2.5	2.9	3.0	3.1	3.4	3.8

着色度	
Coloration Code	
λ_{70}/λ_5	36/30

H-LaK5S	678555	$n_d = 1.67790$	$v_d = 55.52$	$n_F - n_C = 0.01221$	
		$n_e = 1.68081$	$v_e = 55.31$	$n_{F'} - n_{C'} = 0.01231$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.66434
n_r	706.5	1.67210
n_c	656.3	1.67420
$n_{c'}$	643.8	1.67479
n_{He-Ne}	632.8	1.67534
n_D	589.3	1.67779
n_d	587.6	1.67790
n_e	546.1	1.68081
n_F	486.1	1.68641
$n_{F'}$	480.0	1.68710
n_g	435.8	1.69307
n_h	404.7	1.69862
n_i	365.0	1.70810

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.303	$P'_{d,C'}$	0.2526
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2364
$P_{g,F}$	0.5455	$P'_{g,F'}$	0.485

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.850	0.720
2200	0.952	0.906
2000	0.983	0.967
1800	0.994	0.988
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.997	0.995
600	0.997	0.994
550	0.996	0.993
500	0.995	0.991
480	0.994	0.989
460	0.993	0.986
440	0.991	0.983
420	0.990	0.980
400	0.986	0.973
390	0.983	0.966
380	0.976	0.953
370	0.964	0.930
360	0.941	0.886
350	0.907	0.823
340	0.850	0.720
330	0.770	0.590
320	0.660	0.440
310	0.540	0.290
300	0.410	0.170
290	0.300	0.090
280	0.190	0.040

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	3
D_A	6

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.76282780E+000
A_1	-1.10853660E-002
A_2	1.90396000E-002
A_3	5.14224170E-005
A_4	3.63740810E-005
A_5	-1.55525970E-006

熱特性	
Thermal Properties	
T_g (°C)	646
T_S (°C)	669
$T_{10}^{14.5}$ (°C)	616
T_{10}^{13} (°C)	632
$T_{10}^{7.6}$ (°C)	722
$\alpha_{20/120}$ ($10^{-7}/K$)	83
$\alpha_{100/300}$ ($10^{-7}/K$)	94
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0056

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	576
F_A	174
E ($10^7 Pa$)	9561
G ($10^7 Pa$)	3705
μ	0.290
B ($10^{-12}/Pa$)	1.57

その他の特性	
Other Properties	
ρ (g/cm ³)	3.80

屈折率温度係数定数	
Constants of dn/dt	
D_0	-3.62E-06
D_1	2.05E-08
D_2	-5.03E-11
E_0	5.34E-07
E_1	1.59E-10
λ_{TK} (μm)	0.168

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	-1.0	0.3	-0.1	0.5	0.5	0.5
-20~0	-0.6	0.3	-0.1	0.3	1.1	1.1
0~20	0.0	0.1	0.1	0.5	0.8	1.2
20~40	0.1	0.2	0.9	0.9	1.6	1.6
40~60	0.1	0.5	0.8	1.0	1.4	1.7
60~80	0.1	0.7	0.6	1.2	1.2	1.6

着色度	
Coloration Code	
λ_{70}/λ_5	36/29

H-LaK7B	713539	$n_d = 1.71300$	$v_d = 53.94$	$n_F - n_C = 0.01322$	
		$n_e = 1.71615$	$v_e = 53.72$	$n_{F'} - n_{C'} = 0.01333$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.69818
n_r	706.5	1.70670
n_c	656.3	1.70898
$n_{c'}$	643.9	1.70962
n_{He-Ne}	632.8	1.71021
n_D	589.3	1.71287
n_d	587.6	1.71300
n_e	546.1	1.71615
n_F	486.1	1.72220
$n_{F'}$	478.0	1.72295
n_g	435.8	1.72943
n_h	404.7	1.73545
n_i	365.0	1.74574

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3041	$P'_{d,C'}$	0.2535
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2363
$P_{g,F}$	0.5469	$P'_{g,F'}$	0.4860

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.774	0.600
2200	0.924	0.854
2000	0.986	0.972
1800	0.999	0.998
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.999	0.998
480	0.999	0.998
460	0.998	0.996
440	0.997	0.993
420	0.995	0.990
400	0.993	0.984
390	0.990	0.977
380	0.987	0.964
370	0.975	0.939
360	0.950	0.899
350	0.914	0.833
340	0.860	0.738
330	0.785	0.614
320	0.687	0.473
310	0.577	0.334
300	0.464	0.217
290	0.355	0.128
280	0.248	0.063

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D_W	1
D_A	3

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.87989018E+000
A_1	-1.46958687E-002
A_2	1.89956868E-002
A_3	6.06495285E-004
A_4	-2.91346717E-005
A_5	1.65584289E-006

熱特性	
Thermal Properties	
T_g (°C)	627
T_S (°C)	662
$T_{10}^{14.5}$ (°C)	573
T_{10}^{13} (°C)	619
$T_{10}^{7.6}$ (°C)	
$\alpha_{20/120}$ ($10^{-7}/K$)	61
$\alpha_{100/300}$ ($10^{-7}/K$)	77
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0028
$\Delta P_{g,F}$	-0.0071

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	626
F_A	76
E ($10^7 Pa$)	11590
G ($10^7 Pa$)	4490
μ	0.291
B ($10^{-12}/Pa$)	1.67

その他の特性	
Other Properties	
ρ (g/cm^3)	3.78

屈折率温度係数定数	
Constants of dn/dt	
D_0	3.18E-06
D_1	1.31E-08
D_2	-1.47E-11
E_0	5.57E-07
E_1	3.42E-10
λ_{TK} (μm)	0.146

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	3.6	4	4.3	4.3	4.9	5.2
-20~0	3.7	4.1	4.3	4.5	4.9	5.3
0~20	3.7	4.1	4.4	4.5	5.1	5.4
20~40	3.7	4.1	4.4	4.6	5.1	5.5
40~60	3.7	4.2	4.5	4.7	5.2	5.6
60~80	3.8	4.3	4.7	4.9	5.3	5.7

着色度	
Coloration Code	
λ_{70}/λ_5	37/28

H-LaK10S	651559	$n_d = 1.65113$	$v_d = 55.89$	$n_F - n_C = 0.01165$	
		$n_e = 1.65391$	$v_e = 55.60$	$n_{F'} - n_{C'} = 0.01176$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.63825
n_r	706.5	1.64560
n_c	656.3	1.64760
$n_{c'}$	643.8	1.64816
n_{He-Ne}	632.8	1.64869
n_D	589.3	1.65103
n_d	587.6	1.65113
n_e	546.1	1.65391
n_F	486.1	1.65925
$n_{F'}$	480.0	1.65992
n_g	435.8	1.66562
n_h	404.7	1.67094
n_i	365.0	1.68001

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.303	$P'_{d,C'}$	0.2526
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2364
$P_{g,F}$	0.5468	$P'_{g,F'}$	0.4847

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.914	0.835
2200	0.969	0.938
2000	0.990	0.980
1800	0.996	0.992
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.997
700	0.997	0.995
650	0.997	0.994
600	0.997	0.994
550	0.996	0.993
500	0.995	0.990
480	0.994	0.988
460	0.993	0.986
440	0.991	0.983
420	0.991	0.982
400	0.989	0.979
390	0.987	0.975
380	0.985	0.970
370	0.980	0.960
360	0.972	0.944
350	0.958	0.917
340	0.933	0.870
330	0.890	0.790
320	0.800	0.640
310	0.640	0.410
300	0.390	0.150
290	0.120	0.020
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	618
T_S (°C)	668
$T_{10}^{14.5}$ (°C)	575
T_{10}^{13} (°C)	607
$T_{10}^{7.6}$ (°C)	721
$\alpha_{20/120}$ ($10^{-7}/K$)	75
$\alpha_{100/300}$ ($10^{-7}/K$)	84
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.67519360E+000
A_1	-9.27946140E-003
A_2	1.88917950E-002
A_3	-2.39296660E-004
A_4	7.29098320E-005
A_5	-3.36344310E-006

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	634
F_A	162
E ($10^7 Pa$)	9309
G ($10^7 Pa$)	3659
μ	0.272
B ($10^{-12}/Pa$)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0037

屈折率温度係数定数	
Constants of dn/dt	
D_0	-6.75E-07
D_1	1.72E-08
D_2	-1.10E-11
E_0	3.91E-07
E_1	-4.26E-10
λ_{TK} (μm)	0.264

その他の特性	
Other Properties	
ρ (g/cm^3)	3.73

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.0	1.3	1.8	1.9	2.4	2.8
-20~0	1.2	1.6	1.8	2.1	2.3	2.8
0~20	1.4	1.7	2.0	2.2	2.5	2.9
20~40	1.5	1.7	1.9	2.2	2.5	3.1
40~60	1.5	1.9	2.1	2.2	2.6	3.1
60~80	1.9	2.2	2.4	2.6	2.9	3.2

着色度	
Coloration Code	
λ_{70}/λ_5	35/30

H-LaK12S	697562	$n_d = 1.69680$	$v_d = 56.15$	$n_F - n_C = 0.01241$	
		$n_e = 1.69976$	$v_e = 55.98$	$n_{F'} - n_{C'} = 0.01250$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.68269
n_r	706.5	1.69086
n_c	656.3	1.69301
$n_{c'}$	643.8	1.69362
n_{He-Ne}	632.8	1.69418
n_D	589.3	1.69669
n_d	587.6	1.69680
n_e	546.1	1.69976
n_F	486.1	1.70542
$n_{F'}$	480.0	1.70612
n_g	435.8	1.71212
n_h	404.7	1.71768
n_i	365.0	1.72716

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3054	$P'_{d,C'}$	0.2544
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2368
$P_{g,F}$	0.5399	$P'_{g,F'}$	0.48

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.780	0.610
2200	0.938	0.880
2000	0.981	0.963
1800	0.995	0.991
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.998	0.997
480	0.997	0.995
460	0.996	0.993
440	0.995	0.990
420	0.993	0.986
400	0.989	0.979
390	0.986	0.972
380	0.979	0.958
370	0.967	0.935
360	0.943	0.890
350	0.911	0.830
340	0.860	0.740
330	0.790	0.630
320	0.710	0.500
310	0.610	0.370
300	0.500	0.250
290	0.400	0.160
280	0.290	0.080
270	0.170	0.030

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	6
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	662
T_S (°C)	684
$T_{10}^{14.5}$ (°C)	631
T_{10}^{13} (°C)	658
$T_{10}^{7.6}$ (°C)	732
$\alpha_{20/120}$ ($10^{-7}/K$)	68
$\alpha_{100/300}$ ($10^{-7}/K$)	80
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.82673770E+000
A_1	-1.36335730E-002
A_2	1.90474210E-002
A_3	2.04685510E-004
A_4	8.81193050E-006
A_5	-2.15937860E-008

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	686
F_A	118
E (10^7 Pa)	10851
G (10^7 Pa)	4337
μ	0.251
B ($10^{-12}/Pa$)	1.62

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0029
$\Delta P_{g,F}$	-0.0102

屈折率温度係数定数	
Constants of dn/dt	
D_0	8.75E-08
D_1	1.90E-08
D_2	-8.47E-11
E_0	4.12E-07
E_1	-1.87E-10
λ_{TK} (μm)	0.224

その他の特性	
Other Properties	
ρ (g/cm ³)	3.71

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.5	1.6	1.9	2.0	2.4	2.4
-20~0	1.3	1.8	2.0	2.3	2.5	3.2
0~20	1.7	2.1	2.4	2.5	2.6	3.2
20~40	2.0	2.3	2.5	2.7	3.1	3.4
40~60	2.0	2.4	2.6	2.8	3.1	3.5
60~80	2.0	2.4	2.7	2.7	3.1	3.6

着色度	
Coloration Code	
λ_{70}/λ_5	36/28

H-LaK50S	652584	$n_d = 1.65160$	$v_d = 58.44$	$n_F - n_C = 0.01115$	
		$n_e = 1.65426$	$v_e = 58.16$	$n_{F'} - n_{C'} = 0.01125$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.63880
n_r	706.5	1.64625
n_c	656.3	1.64821
$n_{c'}$	643.8	1.64875
n_{He-Ne}	632.8	1.64925
n_D	589.3	1.65150
n_d	587.6	1.65160
n_e	546.1	1.65426
n_F	486.1	1.65936
$n_{F'}$	480.0	1.66000
n_g	435.8	1.66539
n_h	404.7	1.67039
n_i	365.0	1.67886

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.304	$P'_{d,C'}$	0.2533
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2364
$P_{g,F}$	0.5408	$P'_{g,F'}$	0.4791

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.810	0.650
2200	0.935	0.873
2000	0.980	0.960
1800	0.992	0.984
1600	0.997	0.994
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.997	0.995
480	0.997	0.994
460	0.996	0.992
440	0.995	0.991
420	0.995	0.990
400	0.992	0.985
390	0.990	0.980
380	0.985	0.971
370	0.977	0.954
360	0.959	0.920
350	0.931	0.866
340	0.880	0.770
330	0.800	0.630
320	0.660	0.440
310	0.470	0.220
300	0.220	0.050
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	3
D_A	6

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.68411905E+000
A_1	-1.36557290E-002
A_2	1.56617129E-002
A_3	3.82711260E-004
A_4	-8.02343758E-006
A_5	1.71633677E-007

熱特性	
Thermal Properties	
T_g (°C)	594
T_S (°C)	633
$T_{10}^{14.5}$ (°C)	554
T_{10}^{13} (°C)	585
$T_{10}^{7.6}$ (°C)	688
$\alpha_{20/120}$ ($10^{-7}/K$)	68
$\alpha_{100/300}$ ($10^{-7}/K$)	82
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0054

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	618
F_A	135
E ($10^7 Pa$)	10142
G ($10^7 Pa$)	4011
μ	0.264
B ($10^{-12}/Pa$)	

その他の特性	
Other Properties	
ρ (g/cm^3)	3.48

屈折率温度係数定数	
Constants of dn/dt	
D_0	5.60E-07
D_1	1.06E-08
D_2	-4.91E-11
E_0	3.57E-07
E_1	6.22E-10
λ_{TK} (μm)	0.245

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.3	1.5	2.1	2.3	2.5	2.8
-20~0	2.0	2.6	2.7	2.8	3.0	3.3
0~20	2.0	2.3	2.6	2.7	2.8	3.2
20~40	2.0	2.2	2.5	2.6	2.9	3.3
40~60	2.1	2.4	2.5	2.6	2.8	3.5
60~80	2.2	2.3	2.4	2.9	3.7	3.9

着色度	
Coloration Code	
λ_{70}/λ_5	36/28

H-LaK51S	697555	$n_d = 1.69680$	$v_d = 55.52$	$n_F - n_C = 0.01255$	
		$n_e = 1.69979$	$v_e = 55.28$	$n_{F'} - n_{C'} = 0.01266$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.68252
n_r	706.5	1.69078
n_c	656.3	1.69297
$n_{c'}$	643.8	1.69358
n_{He-Ne}	632.8	1.69415
n_D	589.3	1.69668
n_d	587.6	1.69680
n_e	546.1	1.69979
n_F	486.1	1.70552
$n_{F'}$	480.0	1.70624
n_g	435.8	1.71235
n_h	404.7	1.71803
n_i	365.0	1.72773

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3052	$P'_{d,C'}$	0.2543
$P_{e,d}$	0.2382	$P'_{e,d}$	0.2362
$P_{g,F}$	0.5442	$P'_{g,F'}$	0.4826

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.796	0.633
2200	0.945	0.892
2000	0.981	0.963
1800	0.993	0.987
1600	0.998	0.995
1400	0.998	0.996
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.996	0.993
700	0.996	0.993
650	0.997	0.995
600	0.997	0.995
550	0.997	0.995
500	0.997	0.994
480	0.997	0.994
460	0.995	0.990
440	0.993	0.987
420	0.992	0.985
400	0.990	0.980
390	0.987	0.975
380	0.983	0.966
370	0.972	0.945
360	0.956	0.913
350	0.928	0.861
340	0.883	0.780
330	0.822	0.675
320	0.744	0.553
310	0.652	0.425
300	0.558	0.312
290	0.467	0.218
280	0.385	0.148

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	654
T_S (°C)	682
$T_{10}^{14.5}$ (°C)	616
T_{10}^{13} (°C)	640
$T_{10}^{7.6}$ (°C)	724
$\alpha_{20/120}$ ($10^{-7}/K$)	68
$\alpha_{100/300}$ ($10^{-7}/K$)	81
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.82348940E+000
A_1	-1.26281490E-002
A_2	2.12484440E-002
A_3	-4.45653260E-004
A_4	1.03800300E-004
A_5	-4.72555940E-006

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	695
F_A	111
E (10^7 Pa)	11314
G (10^7 Pa)	4429
μ	0.279
B ($10^{-12}/Pa$)	1.69

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0028
$\Delta P_{g,F}$	-0.0069

屈折率温度係数定数	
Constants of dn/dt	
D_0	-1.57E-07
D_1	1.40E-08
D_2	-2.98E-11
E_0	5.62E-07
E_1	8.34E-10
λ_{TK} (μm)	0.148

その他の特性	
Other Properties	
ρ (g/cm^3)	3.61

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.8	2.0	2.1	2.2	2.3	2.6
-20~0	1.7	2.0	2.2	2.5	2.9	3.3
0~20	1.7	2.0	2.2	3.0	3.0	3.2
20~40	1.6	2.2	2.8	2.6	3.1	3.5
40~60	2.0	2.2	2.8	2.7	3.1	3.8
60~80	2.3	2.8	2.9	3.2	3.6	3.8

着色度	
Coloration Code	
λ_{70}/λ_5	37/29

H-LaK52S	729547	$n_d = 1.72916$	$v_d = 54.66$	$n_F - n_C = 0.01334$	
		$n_e = 1.73234$	$v_e = 54.45$	$n_{F'} - n_{C'} = 0.01345$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.71409
n_r	706.5	1.72277
n_c	656.3	1.72510
$n_{c'}$	643.8	1.72575
n_{He-Ne}	632.8	1.72635
n_D	589.3	1.72904
n_d	587.6	1.72916
n_e	546.1	1.73234
n_F	486.1	1.73844
$n_{F'}$	480.0	1.73920
n_g	435.8	1.74570
n_h	404.7	1.75176
n_i	365.0	1.76209

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3043	$P'_{d,C'}$	0.2535
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2364
$P_{g,F}$	0.5442	$P'_{g,F'}$	0.4833

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.840	0.700
2200	0.948	0.898
2000	0.981	0.962
1800	0.992	0.985
1600	0.998	0.996
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.997
600	0.997	0.995
550	0.997	0.995
500	0.997	0.994
480	0.997	0.994
460	0.995	0.991
440	0.994	0.988
420	0.992	0.984
400	0.988	0.977
390	0.984	0.969
380	0.983	0.966
370	0.966	0.933
360	0.950	0.900
350	0.910	0.830
340	0.860	0.740
330	0.780	0.610
320	0.690	0.470
310	0.570	0.330
300	0.480	0.230
290	0.390	0.150
280	0.260	0.070

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	673
T_S (°C)	696
$T_{10}^{14.5}$ (°C)	630
T_{10}^{13} (°C)	654
$T_{10}^{7.6}$ (°C)	
$\alpha_{20/120}$ ($10^{-7}/K$)	60
$\alpha_{100/300}$ ($10^{-7}/K$)	74
λ (W/m·K)	

色散公式定数	
Constants of Dispersion Formula	
A_0	2.92799279E+000
A_1	-1.22458967E-002
A_2	2.39216813E-002
A_3	-7.31304876E-004
A_4	1.47071309E-004
A_5	-6.91523554E-006

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	765
F_A	
E (10^7 Pa)	11761
G (10^7 Pa)	4554
μ	0.291
B (10^{-12} /Pa)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0025
$\Delta P_{g,F}$	-0.0084

屈折率温度係数定数	
Constants of dn/dt	
D_0	6.78E-07
D_1	1.74E-08
D_2	-3.85E-12
E_0	3.95E-07
E_1	7.06E-10
λ_{TK} (μm)	0.201

その他の特性	
Other Properties	
ρ (g/cm ³)	4.06

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.9	2.1	2.4	2.7	2.9	3.2
-20~0	1.9	2.1	2.4	2.7	2.9	3.2
0~20	2.2	2.5	2.6	2.7	3.1	3.4
20~40	2.4	2.7	2.8	2.9	3.4	3.7
40~60	2.5	3	3.2	3.5	3.7	4.2
60~80	2.6	3.2	3.4	3.6	3.9	4.3

着色度	
Coloration Code	
λ_{70}/λ_5	37/29

H-LaK53S	755523	$n_d = 1.75500$	$v_d = 52.32$	$n_F - n_C = 0.01443$	
		$n_e = 1.75843$	$v_e = 52.09$	$n_{F'} - n_{C'} = 0.01456$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.73893
n_r	706.5	1.74814
n_c	656.3	1.75062
$n_{c'}$	643.8	1.75132
n_{He-Ne}	632.8	1.75197
n_D	589.3	1.75487
n_d	587.6	1.75500
n_e	546.1	1.75843
n_F	486.1	1.76505
$n_{F'}$	480.0	1.76588
n_g	435.8	1.77295
n_h	404.7	1.77952
n_i	365.0	1.79079

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3035	$P'_{d,C'}$	0.2527
$P_{e,d}$	0.2377	$P'_{e,d}$	0.2356
$P_{g,F}$	0.5475	$P'_{g,F'}$	0.4855

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.810	0.650
2200	0.947	0.898
2000	0.981	0.963
1800	0.995	0.990
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.997
700	0.998	0.997
650	0.998	0.996
600	0.997	0.995
550	0.997	0.995
500	0.996	0.993
480	0.995	0.991
460	0.993	0.987
440	0.992	0.984
420	0.989	0.978
400	0.981	0.962
390	0.973	0.946
380	0.959	0.919
370	0.935	0.874
360	0.890	0.800
350	0.840	0.700
340	0.750	0.570
330	0.650	0.420
320	0.530	0.280
310	0.360	0.130
300	0.300	0.090
290	0.200	0.040
280	0.100	0.010

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	669
T_S (°C)	707
$T_{10}^{14.5}$ (°C)	645
T_{10}^{13} (°C)	671
$T_{10}^{7.6}$ (°C)	
$\alpha_{20/120}$ ($10^{-7}/K$)	65
$\alpha_{100/300}$ ($10^{-7}/K$)	72
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.01623610E+000
A_1	-1.44609480E-002
A_2	2.29095390E-002
A_3	2.16967700E-004
A_4	2.73048040E-005
A_5	-9.80684550E-007

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	729
F_A	114
E (10^7 Pa)	10663
G (10^7 Pa)	4142
μ	0.287
B (10^{-12} /Pa)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0091

屈折率温度係数定数	
Constants of dn/dt	
D_0	1.45E-06
D_1	1.47E-08
D_2	-3.20E-11
E_0	6.34E-07
E_1	8.04E-10
λ_{TK} (μm)	0.047

その他の特性	
Other Properties	
ρ (g/cm ³)	4.16

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	2.5	3	3.2	3.3	3.8	4.1
-20~0	2.5	3.2	3.3	3.5	3.9	4.2
0~20	2.7	3.4	3.5	3.8	4.0	4.5
20~40	2.9	3.5	3.7	3.9	4.4	4.8
40~60	3.1	3.5	3.7	3.9	4.5	4.9
60~80	3.2	3.6	4.0	4.2	4.8	5.1

着色度	
Coloration Code	
λ_{70}/λ_5	38/29

H-ZLaF4LS 911353	$n_d = 1.91082$	$v_d = 35.25$	$n_F - n_C = 0.02584$	
	$n_e = 1.91695$	$v_e = 35.01$	$n_{F'} - n_{C'} = 0.02619$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.88482
n_r	706.5	1.89905
n_C	656.3	1.90323
$n_{C'}$	643.8	1.90442
n_{He-Ne}	632.8	1.90554
n_D	589.3	1.91060
n_d	587.6	1.91082
n_e	546.1	1.91695
n_F	486.1	1.92907
$n_{F'}$	480.0	1.93061
n_g	435.8	1.94413
n_h	404.7	1.95719
n_i	365.0	1.98085

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2937	$P'_{d,C'}$	0.2444
$P_{e,d}$	0.2372	$P'_{e,d}$	0.2341
$P_{g,F}$	0.5828	$P'_{g,F'}$	0.5162

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.919	0.845
2200	0.977	0.954
2000	0.990	0.980
1800	0.996	0.993
1600	0.998	0.997
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.998	0.997
850	0.998	0.997
800	0.996	0.992
700	0.996	0.992
650	0.995	0.990
600	0.996	0.992
550	0.994	0.988
500	0.988	0.976
480	0.982	0.965
460	0.975	0.950
440	0.963	0.928
420	0.947	0.896
400	0.906	0.821
390	0.865	0.748
380	0.793	0.629
370	0.660	0.435
360	0.418	0.175
350		
340		
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	714
T_S (°C)	750
$T_{10}^{14.5}$ (°C)	
T_{10}^{13} (°C)	
$T_{10}^{7.6}$ (°C)	
$\alpha_{20/120}$ ($10^{-7}/K$)	69
$\alpha_{100/300}$ ($10^{-7}/K$)	88
λ (W/m·K)	

色散公式定数	
Constants of Dispersion Formula	
A_0	3.51973155E+000
A_1	-1.10521728E-002
A_2	4.51847983E-002
A_3	9.86812070E-005
A_4	1.52982044E-004
A_5	-1.23195436E-006

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	724
F_A	91
E (10^7 Pa)	12400
G (10^7 Pa)	4790
μ	
B (10^{-12} /Pa)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0013
$\Delta P_{g,F}$	-0.0029

屈折率温度係数定数	
Constants of dn/dt	
D_0	2.77E-07
D_1	1.29E-08
D_2	2.83E-11
E_0	1.08E-06
E_1	1.34E-09
λ_{TK} (μm)	0.201

その他の特性	
Other Properties	
ρ (g/cm ³)	4.91

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	3.2	4.0	4.1	4.4	5.7	6.7
-20~0	2.4	3.4	4.2	4.8	5.8	6.9
0~20	2.5	3.8	4.5	4.7	5.4	7.0
20~40	3.0	4.4	4.4	4.7	6.3	7.5
40~60	2.8	4.7	5.1	5.6	6.3	8.0
60~80	2.8	4.7	4.9	6.0	7.2	7.9

着色度	
Coloration Code	
λ_{70}/λ_5	41/36

H-ZLaF50S	804465	$n_d = 1.80420$	$v_d = 46.50$	$n_F - n_C = 0.01729$	
		$n_e = 1.80832$	$v_e = 46.25$	$n_{F'} - n_{C'} = 0.01748$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.78560
n_r	706.5	1.79609
n_c	656.3	1.79901
$n_{c'}$	643.8	1.79983
n_{He-Ne}	632.8	1.80060
n_D	589.3	1.80405
n_d	587.6	1.80420
n_e	546.1	1.80832
n_F	486.1	1.81630
$n_{F'}$	480.0	1.81731
n_g	435.8	1.82594
n_h	404.7	1.83405
n_i	365.0	1.84758

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3002	$P'_{d,C'}$	0.2501
$P_{e,d}$	0.2380	$P'_{e,d}$	0.2355
$P_{g,F}$	0.5572	$P'_{g,F'}$	0.4941

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.856	0.733
2200	0.963	0.927
2000	0.985	0.971
1800	0.995	0.991
1600	0.998	0.997
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.997	0.996
700	0.997	0.995
650	0.996	0.994
600	0.996	0.992
550	0.995	0.990
500	0.993	0.986
480	0.991	0.982
460	0.988	0.976
440	0.984	0.969
420	0.978	0.956
400	0.961	0.923
390	0.942	0.888
380	0.912	0.831
370	0.860	0.740
360	0.780	0.610
350	0.660	0.460
340	0.540	0.290
330	0.370	0.140
320	0.200	0.040
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	669
T_S (°C)	701
$T_{10}^{14.5}$ (°C)	633
T_{10}^{13} (°C)	659
$T_{10}^{7.6}$ (°C)	742
$\alpha_{20/120^\circ\text{C}}$ ($10^{-7}/\text{K}$)	67
$\alpha_{100/300^\circ\text{C}}$ ($10^{-7}/\text{K}$)	75
λ ($\text{W}/\text{m}\cdot\text{K}$)	0.820

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

機械特性	
Mechanical Properties	
H_k (10^7Pa)	770
F_A	95
E (10^7Pa)	12806
G (10^7Pa)	4936
μ	0.297
B ($10^{-12}/\text{Pa}$)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0084

屈折率温度係数定数	
Constants of dn/dt	
D_0	
D_1	
D_2	
E_0	
E_1	
λ_{TK} (μm)	

その他の特性	
Other Properties	
ρ (g/cm^3)	4.43

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^\circ\text{C}$)					
	t	C'	d	e	F'	g
-40~-20						
-20~0						
0~20						
20~40						
40~60						
60~80						

着色度	
Coloration Code	
λ_{70}/λ_5	40/32

H-ZLaF56S	806333	$n_d = 1.80610$	$\nu_d = 33.27$	$n_F - n_C = 0.02423$
		$n_e = 1.81184$	$\nu_e = 33.03$	$n_{F'} - n_{C'} = 0.02458$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.78189
n_r	706.5	1.79513
n_C	656.3	1.79902
$n_{C'}$	643.8	1.80012
n_{He-Ne}	632.8	1.80117
n_D	589.3	1.80589
n_d	587.6	1.80610
n_e	546.1	1.81184
n_F	486.1	1.82325
$n_{F'}$	480.0	1.82470
n_g	435.8	1.83755
n_h	404.7	1.85016
n_i	365.0	1.87351

色散公式定数	
Constants of Dispersion Formula	
A_0	3.14933428E+000
A_1	-1.11549297E-002
A_2	3.75191596E-002
A_3	7.87288786E-004
A_4	2.97271180E-005
A_5	7.44861477E-006

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0005
$\Delta P_{g, F}$	0.0013

その他の特性	
Other Properties	
ρ (g/cm ³)	3.70

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2924	$P'_{d,C'}$	0.2431
$P_{e,d}$	0.2368	$P'_{e,d}$	0.2334
$P_{g,F}$	0.5903	$P'_{g,F'}$	0.5229

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	2

熱特性	
Thermal Properties	
T_g (°C)	659
T_S (°C)	707
$T_{10}^{14.5}$ (°C)	616
T_{10}^{13} (°C)	650
$T_{10}^{7.6}$ (°C)	767
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	74
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	86
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	582
F_A	149
E (10 ⁷ Pa)	11594
G (10 ⁷ Pa)	4526
μ	0.281
B (10 ⁻¹² /Pa)	1.79

屈折率温度係数定数	
Constants of dn/dt	
D_0	-9.87E-07
D_1	1.97E-08
D_2	-1.23E-10
E_0	8.59E-07
E_1	9.48E-10
λ_{TK} (μm)	0.252

内部透過比	
Internal Transmittance	
λ (nm)	τ 5mm
2400	0.905
2200	0.959
2000	0.985
1800	0.993
1600	0.997
1400	0.998
1200	0.999
1060	0.999
1000	0.999
950	0.999
900	0.999
850	0.999
800	0.997
700	0.997
650	0.997
600	0.997
550	0.996
500	0.993
480	0.990
460	0.986
440	0.980
420	0.971
400	0.945
390	0.912
380	0.842
370	0.675
360	0.333
350	
340	
330	
320	
310	
300	
290	
280	

屈折率温度係数

着色度

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	0.6	1.2	1.6	2.1	3.0	3.7
-20~0	1.1	1.9	2.4	2.6	3.4	5.0
0~20	1.4	2.6	2.8	3.3	3.8	5.3
20~40	1.5	2.8	3.3	3.6	4.8	5.4
40~60	1.8	2.9	3.3	3.7	4.9	6.0
60~80	2.1	2.9	3.3	3.7	5.0	6.3

Coloration Coefficient	
$\lambda_{80}/\lambda_{50}$	43/
退火增值系数	
Annealing Increase	
Coefficient	
β	17

ode
/36
70

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H-ZLaF66S	801350	$n_d = 1.80100$	$\nu_d = 34.97$	$n_F - n_C = 0.02291$
		$n_e = 1.80642$	$\nu_e = 34.71$	$n_{F'} - n_{C'} = 0.02323$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.77793
n_r	706.5	1.79059
n_C	656.3	1.79429
$n_{C'}$	643.8	1.79534
n_{He-Ne}	632.8	1.79633
n_D	589.3	1.80080
n_d	587.6	1.80100
n_e	546.1	1.80642
n_F	486.1	1.81720
$n_{F'}$	480.0	1.81858
n_g	435.8	1.83066
n_h	404.7	1.84243
n_i	365.0	1.86400

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0001
$\Delta P_{g, F}$	0.0016

その他の特性	
Other Properties	
ρ (g/cm ³)	3.81

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2929	$P'_{d,C'}$	0.2435
$P_{e,d}$	0.2367	$P'_{e,d}$	0.2334
$P_{g,F}$	0.5877	$P'_{g,F'}$	0.5202

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	657
T_S (°C)	705
$T_{10}^{14.5}$ (°C)	612
T_{10}^{13} (°C)	645
$T_{10}^{7.6}$ (°C)	764
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	79
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	93
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	596
F_A	204
E (10 ⁷ Pa)	10980
G (10 ⁷ Pa)	4268
μ	0.286
B (10 ⁻¹² /Pa)	1.69

屈折率温度係数定数	
Constants of dn/dt	
D_0	-1.89E-06
D_1	1.64E-08
D_2	-1.41E-10
E_0	8.70E-07
E_1	1.01E-09
λ_{TK} (μm)	0.245

内部透過比	
Internal Transmittance	
λ (nm)	τ 5mm
2400	0.906
2200	0.964
2000	0.986
1800	0.994
1600	0.999
1400	0.999
1200	0.999
1060	0.999
1000	0.999
950	0.999
900	0.999
850	0.998
800	0.998
700	0.997
650	0.997
600	0.996
550	0.994
500	0.988
480	0.984
460	0.979
440	0.972
420	0.960
400	0.926
390	0.892
380	0.814
370	0.635
360	0.381
350	0.077
340	
330	
320	
310	
300	
290	
280	

屈折率温度係数

着色度

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-0.3	0.8	1.3	1.5	2.2	3.4
-20~0	0.8	1.3	1.7	2.1	3.3	4.0
0~20	1.0	2.0	2.3	2.6	3.7	4.6
20~40	1.0	2.1	2.4	3.1	3.7	5.1
40~60	1.1	2.1	2.6	3.1	3.8	5.1
60~80	1.2	2.1	3.0	3.1	4.4	5.3

Coloration Coefficient	
$\lambda_{80}/\lambda_{50}$	43/
退火增值系数	
Annealing Increase	
Coefficient	
β	17

ode
/36
70

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H-ZLaF68B	883408	$n_d = 1.88300$	$\nu_d = 40.80$	$n_F - n_C = 0.02164$
		$n_e = 1.88815$	$\nu_e = 40.55$	$n_{F'} - n_{C'} = 0.02190$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.86058
n_r	706.5	1.87300
n_C	656.3	1.87657
$n_{C'}$	643.9	1.87758
n_{He-Ne}	632.8	1.87854
n_D	589.3	1.88281
n_d	587.6	1.88300
n_e	546.1	1.88815
n_F	486.1	1.89821
$n_{F'}$	480.0	1.89948
n_g	435.8	1.91054
n_h	404.7	1.92103
n_i	365.0	1.93949

色散公式定数	
Constants of Dispersion Formula	
A_0	3.43709060E+000
A_1	-1.20569120E-002
A_2	3.80113780E-002
A_3	-2.35528530E-005
A_4	1.29936670E-004
A_5	-4.02389130E-006

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0024
$\Delta P_{g, F}$	-0.0064

その他の特性	
Other Properties	
ρ (g/cm ³)	5.32

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.2971	$P'_{d, C'}$	0.2475
$P_{e, d}$	0.2380	$P'_{e, d}$	0.2352
$P_{g, F}$	0.5698	$P'_{g, F'}$	0.5050

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D_W	1
D_A	2

熱特性	
Thermal Properties	
T_g (°C)	710
T_S (°C)	755
$T_{10}^{14.5}$ (°C)	660
T_{10}^{13} (°C)	693
$T_{10}^{7.6}$ (°C)	795
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	72
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	87
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	741
F_A	93
E (10 ⁷ Pa)	12728
G (10 ⁷ Pa)	4886
μ	0.302
B (10 ⁻¹² /Pa)	1.00

屈折率温度係数定数	
Constants of dn/dt	
D_0	
D_1	
D_2	
E_0	
E_1	
λ_{TK} (μm)	

内部透過比	
Internal Transmittance	
λ (nm)	τ 5mm
2400	0.913
2200	0.976
2000	0.989
1800	0.996
1600	0.998
1400	0.999
1200	0.999
1060	0.999
1000	0.999
950	0.999
900	0.999
850	0.999
800	0.996
700	0.996
650	0.996
600	0.997
550	0.997
500	0.992
480	0.989
460	0.985
440	0.978
420	0.969
400	0.946
390	0.921
380	0.879
370	0.804
360	0.671
350	0.447
340	0.173
330	
320	
310	
300	
290	
280	

屈折率温度係数

着色度

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	2.3	2.5	3.0	3.7	4.3	4.6
-20~0	2.0	3.0	3.4	4.1	4.4	5.2
0~20	2.1	3.3	3.6	3.9	4.9	5.7
20~40	2.4	3.4	3.8	4.0	4.9	5.9
40~60	2.8	3.6	4.1	4.3	4.9	5.9
60~80	2.7	3.5	3.8	4.1	5.1	6.0

Coloration Coefficient	
$\lambda_{70}/\lambda_{50}$	39/
退火增值系数	
Annealing Increase	
Coefficient	
β	10

H-ZLaF69A 816465	$n_d = 1.81600$	$\nu_d = 46.52$	$n_F - n_C = 0.01754$
	$n_e = 1.82016$	$\nu_e = 46.31$	$n_{F'} - n_{C'} = 0.01771$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.79725
n_r	706.5	1.80779
n_C	656.3	1.81074
$n_{C'}$	643.8	1.81157
n_{He-Ne}	632.8	1.81235
n_D	589.3	1.81585
n_d	587.6	1.81600
n_e	546.1	1.82016
n_F	486.1	1.82828
$n_{F'}$	480.0	1.82928
n_g	435.8	1.83802
n_h	404.7	1.84622
n_i	365.0	1.86041

色散公式定数	
Constants of Dispersion Formula	
A_0	3.21481090E+000
A_1	-1.29925170E-002
A_2	2.92437070E-002
A_3	1.88002180E-004
A_4	5.71065470E-005
A_5	-1.95714820E-006

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0013
$\Delta P_{g, F}$	-0.0112

その他の特性	
Other Properties	
ρ (g/cm ³)	5.00

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.2999	$P'_{d, C'}$	0.2501
$P_{e, d}$	0.2372	$P'_{e, d}$	0.2349
$P_{g, F}$	0.5553	$P'_{g, F'}$	0.4935

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	2

熱特性	
Thermal Properties	
T_g (°C)	696
T_S (°C)	736
$T_{10}^{14.5}$ (°C)	665
T_{10}^{13} (°C)	693
$T_{10}^{7.6}$ (°C)	797
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	68
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	84
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	721
F_A	98
E (10 ⁷ Pa)	12469
G (10 ⁷ Pa)	4802
μ	0.298
B (10 ⁻¹² /Pa)	

屈折率温度係数定数	
Constants of dn/dt	
D_0	1.51E-06
D_1	1.83E-08
D_2	-1.08E-10
E_0	5.27E-07
E_1	6.39E-10
λ_{TK} (μm)	0.240

内部透過比	
Internal Transmittance	
λ (nm)	τ 5mm
2400	0.877
2200	0.967
2000	0.988
1800	0.996
1600	0.998
1400	0.999
1200	0.999
1060	0.999
1000	0.999
950	0.999
900	0.999
850	0.999
800	0.996
700	0.996
650	0.996
600	0.996
550	0.996
500	0.995
480	0.994
460	0.992
440	0.989
420	0.987
400	0.981
390	0.975
380	0.965
370	0.947
360	0.919
350	0.87
340	0.81
330	0.72
320	0.62
310	0.4
300	0.32
290	0.17
280	

屈折率温度係数

着色度

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	1.6	2.4	2.9	3.0	3.3	3.8
-20~0	2.7	3.0	3.3	3.5	4.3	4.9
0~20	3.0	3.1	3.4	3.9	4.4	4.9
20~40	3.1	3.8	3.8	4.4	4.7	5.5
40~60	3.1	3.8	4.0	4.4	4.9	5.6
60~80	3.1	3.8	4.3	4.4	5.1	6.0

Coloration Coefficient	
$\lambda_{80}/\lambda_{50}$	39/
退火增值系数	
Annealing Increase	
Coefficient	
β	13

H-ZLaF71S	850323	$n_d = 1.85026$	$\nu_d = 32.30$	$n_F - n_C = 0.02633$	
		$n_e = 1.85648$	$\nu_e = 32.08$	$n_{F'} - n_{C'} = 0.02670$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.82394
n_r	706.5	1.83835
n_c	656.3	1.84258
$n_{c'}$	643.8	1.84377
n_{He-Ne}	632.8	1.84491
n_D	589.3	1.85003
n_d	587.6	1.85026
n_e	546.1	1.85648
n_F	486.1	1.86891
$n_{F'}$	480.0	1.87047
n_g	435.8	1.88450
n_h	404.7	1.89823
n_i	365.0	

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2917	$P'_{d,C'}$	0.2430
$P_{e,d}$	0.2363	$P'_{e,d}$	0.2330
$P_{g,F}$	0.5925	$P'_{g,F'}$	0.5254

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.864	0.746
2200	0.954	0.910
2000	0.983	0.967
1800	0.993	0.987
1600	0.997	0.995
1400	0.998	0.996
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.996	0.992
700	0.995	0.991
650	0.994	0.989
600	0.994	0.989
550	0.993	0.986
500	0.986	0.972
480	0.981	0.962
460	0.974	0.949
440	0.963	0.927
420	0.945	0.893
400	0.901	0.812
390	0.858	0.737
380	0.782	0.611
370	0.627	0.393
360	0.332	0.110
350		
340		
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	3

熱特性	
Thermal Properties	
T_g (°C)	612
T_S (°C)	655
$T_{10}^{14.5}$ (°C)	574
T_{10}^{13} (°C)	605
$T_{10}^{7.6}$ (°C)	706
$\alpha_{20/120\text{°C}}$ ($10^{-7}/K$)	76
$\alpha_{100/300\text{°C}}$ ($10^{-7}/K$)	92
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.30457030E+000
A_1	-1.57032080E-002
A_2	3.74207150E-002
A_3	2.17455910E-003
A_4	-1.49305710E-004
A_5	1.85063230E-005

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	607
F_A	131
E (10^7 Pa)	11225
G (10^7 Pa)	4352
μ	0.290
B (10^{-12} /Pa)	1.78

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	0.0018

屈折率温度係数定数	
Constants of dn/dt	
D_0	-2.69E-06
D_1	1.66E-08
D_2	-1.31E-10
E_0	9.42E-07
E_1	9.19E-10
λ_{TK} (μm)	0.249

その他の特性	
Other Properties	
ρ (g/cm ³)	4.22

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/\text{°C}$)					
	t	C'	d	e	F'	g
-40~-20	-0.5	0.6	0.9	1.9	2.2	3.2
-20~0	-0.1	1.0	1.4	1.8	3.2	4.1
0~20	0.5	1.4	2.3	2.7	3.8	4.6
20~40	0.8	1.6	2.4	3.0	3.8	5.1
40~60	0.9	1.7	2.2	2.3	3.8	5.4
60~80	0.9	2.0	2.4	3.0	3.9	5.9

着色度	
Coloration Code	
λ_{70}/λ_5	41/36

H-ZLaF75S	904313	$n_d = 1.90366$	$\nu_d = 31.31$	$n_F - n_C = 0.02886$	
		$n_e = 1.91048$	$\nu_e = 31.07$	$n_{F'} - n_{C'} = 0.02930$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.87512
n_r	706.5	1.89064
n_C	656.3	1.89526
$n_{C'}$	643.8	1.89657
n_{He-Ne}	632.8	1.89781
n_D	589.3	1.90341
n_d	587.6	1.90366
n_e	546.1	1.91048
n_F	486.1	1.92412
$n_{F'}$	480.0	1.92587
n_g	435.8	1.94127
n_h	404.7	1.95636
n_i	365.0	1.98439

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2911	$P'_{d,C'}$	0.2420
$P_{e,d}$	0.2363	$P'_{e,d}$	0.2328
$P_{g,F}$	0.5942	$P'_{g,F'}$	0.5256

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.906	0.821
2200	0.973	0.946
2000	0.989	0.978
1800	0.997	0.994
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.997	0.995
700	0.996	0.993
650	0.996	0.993
600	0.996	0.993
550	0.995	0.991
500	0.988	0.977
480	0.984	0.969
460	0.977	0.955
440	0.966	0.934
420	0.949	0.901
400	0.909	0.827
390	0.868	0.753
380	0.791	0.625
370	0.625	0.390
360	0.302	0.091
350		
340		
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	2

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.48751320E+000
A_1	-1.49732270E-002
A_2	4.32288100E-002
A_3	2.10592210E-003
A_4	-1.00284900E-004
A_5	1.62326630E-005

熱特性	
Thermal Properties	
T_g (°C)	671
T_S (°C)	702
$T_{10}^{14.5}$ (°C)	622
T_{10}^{13} (°C)	654
$T_{10}^{7.6}$ (°C)	753
$\alpha_{20/120}$ ($10^{-7}/K$)	78
$\alpha_{100/300}$ ($10^{-7}/K$)	88
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0018

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	685
F_A	124
E ($10^7 Pa$)	11734
G ($10^7 Pa$)	4523
μ	0.297
B ($10^{-12}/Pa$)	

その他の特性	
Other Properties	
ρ (g/cm ³)	4.54

屈折率温度係数定数	
Constants of dn/dt	
D_0	-2.09E-06
D_1	1.28E-08
D_2	-7.59E-11
E_0	8.54E-07
E_1	8.32E-10
λ_{TK} (μm)	0.275

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	0.0	1.4	1.5	2.1	3.1	4.3
-20~0	0.8	1.8	2.3	2.7	3.8	5.2
0~20	1.0	1.9	2.5	3.0	4.1	5.7
20~40	1.1	1.9	2.6	3.0	4.2	5.7
40~60	1.0	2.2	2.6	3.2	4.5	6.0
60~80	1.1	2.6	3.0	3.4	5.1	6.4

着色度	
Coloration Code	
λ_{70}/λ_5	40/36

H-ZLaF76S	850301	$n_d = 1.85013$	$v_d = 30.05$	$n_F - n_C = 0.02829$	
		$n_e = 1.85681$	$v_e = 29.84$	$n_{F'} - n_{C'} = 0.02871$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.82207
n_r	706.5	1.83741
n_c	656.3	1.84191
$n_{c'}$	643.8	1.84320
n_{He-Ne}	632.8	1.84441
n_D	589.3	1.84989
n_d	587.6	1.85013
n_e	546.1	1.85681
n_F	486.1	1.87020
$n_{F'}$	480.0	1.87191
n_g	435.8	1.88715
n_h	404.7	1.90221
n_i	365.0	

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2906	$P'_{d,C'}$	0.2414
$P_{e,d}$	0.2361	$P'_{e,d}$	0.2327
$P_{g,F}$	0.5992	$P'_{g,F'}$	0.5308

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.86	0.740
2200	0.956	0.914
2000	0.985	0.971
1800	0.996	0.992
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.997
700	0.998	0.996
650	0.997	0.994
600	0.996	0.992
550	0.993	0.986
500	0.985	0.971
480	0.980	0.960
460	0.973	0.946
440	0.961	0.923
420	0.938	0.880
400	0.890	0.790
390	0.840	0.700
380	0.730	0.530
370	0.490	0.240
360	0.140	0.020
350		
340		
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	5

熱特性	
Thermal Properties	
T_g (°C)	632
T_S (°C)	670
$T_{10}^{14.5}$ (°C)	570
T_{10}^{13} (°C)	603
$T_{10}^{7.6}$ (°C)	703
$\alpha_{20/120}$ ($10^{-7}/K$)	74
$\alpha_{100/300}$ ($10^{-7}/K$)	88
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.29759770E+000
A_1	-1.71679310E-002
A_2	3.86912110E-002
A_3	2.68188760E-003
A_4	-2.03903220E-004
A_5	2.43325020E-005

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	615
F_A	123
E (10^7 Pa)	10535
G (10^7 Pa)	4192
μ	0.257
B (10^{-12} /Pa)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0047

屈折率温度係数定数	
Constants of dn/dt	
D_0	-8.70E-07
D_1	1.45E-08
D_2	-5.38E-11
E_0	7.77E-07
E_1	8.10E-10
λ_{TK} (μm)	0.291

その他の特性	
Other Properties	
ρ (g/cm ³)	3.88

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.0	2.2	2.4	3.3	3.7	5.3
-20~0	1.4	2.2	2.7	3.3	4.2	5.6
0~20	1.5	2.5	3.2	3.4	4.8	6.1
20~40	1.7	2.9	3.3	3.5	4.9	6.4
40~60	1.8	2.9	3.4	3.6	5.1	6.6
60~80	2.1	3.7	3.7	3.9	5.2	7.2

着色度	
Coloration Code	
λ_{70}/λ_5	41/36

H-ZLaF78A	901371	$n_d = 1.90069$	$v_d = 37.05$	$n_F - n_C = 0.02431$	
		$n_e = 1.90646$	$v_e = 36.82$	$n_{F'} - n_{C'} = 0.02462$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.87598
n_r	706.5	1.88956
n_c	656.3	1.89353
$n_{c'}$	643.8	1.89466
n_{He-Ne}	632.8	1.89571
n_D	589.3	1.90048
n_d	587.6	1.90069
n_e	546.1	1.90646
n_F	486.1	1.91784
$n_{F'}$	480.0	1.91928
n_g	435.8	1.93190
n_h	404.7	1.94398
n_i	365.0	1.96571

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2946	$P'_{d,C'}$	0.2449
$P_{e,d}$	0.2373	$P'_{e,d}$	0.2344
$P_{g,F}$	0.5783	$P'_{g,F'}$	0.5126

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.917	0.841
2200	0.977	0.955
2000	0.991	0.982
1800	0.997	0.995
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.997	0.995
700	0.997	0.994
650	0.996	0.993
600	0.994	0.989
550	0.994	0.989
500	0.989	0.979
480	0.984	0.969
460	0.978	0.956
440	0.969	0.939
420	0.956	0.914
400	0.925	0.855
390	0.894	0.799
380	0.840	0.706
370	0.746	0.556
360	0.573	0.328
350	0.290	0.084
340		
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	732
T_S (°C)	782
$T_{10}^{14.5}$ (°C)	680
T_{10}^{13} (°C)	731
$T_{10}^{7.6}$ (°C)	833
$\alpha_{20/120}$ ($10^{-7}/K$)	78
$\alpha_{100/300}$ ($10^{-7}/K$)	90
λ (W/m·K)	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.49322690E+000
A_1	-1.32987680E-002
A_2	4.00277430E-002
A_3	8.23139850E-004
A_4	3.93075180E-005
A_5	2.86901810E-006

機械特性	
Mechanical Properties	
H_k (10^7 Pa)	663
F_A	138
E (10^7 Pa)	12746
G (10^7 Pa)	4892
μ	0.303
B (10^{-12} /Pa)	1.00

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0013
$\Delta P_{g,F}$	-0.0043

屈折率温度係数定数	
Constants of dn/dt	
D_0	-1.22E-06
D_1	1.45E-08
D_2	-2.51E-11
E_0	1.18E-06
E_1	6.04E-10
λ_{TK} (μm)	0.130

その他の特性	
Other Properties	
ρ (g/cm ³)	4.97

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.4	2.5	2.9	3.4	4.3	5.3
-20~0	1.5	2.6	3.1	3.5	4.5	5.5
0~20	1.6	2.7	3.5	3.6	4.6	5.6
20~40	1.7	3.2	3.6	4.1	4.8	5.9
40~60	1.8	3.4	3.7	4.2	5.0	6.2
60~80	2.1	3.5	3.9	4.3	5.2	6.5

着色度	
Coloration Code	
λ_{70}/λ_5	40/35

H-ZLaF89S	954323	$n_d = 1.95375$	$v_d = 32.31$	$n_F - n_C = 0.02952$	
		$n_e = 1.96073$	$v_e = 32.09$	$n_{F'} - n_{C'} = 0.02994$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.92448
n_r	706.5	1.94040
n_c	656.3	1.94513
$n_{c'}$	643.8	1.94648
n_{He-Ne}	632.8	1.94774
n_D	589.3	1.95349
n_d	587.6	1.95375
n_e	546.1	1.96073
n_F	486.1	1.97465
$n_{F'}$	480.0	1.97642
n_g	435.8	1.99208
n_h	404.7	2.00732
n_i	365.0	2.03535

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2920	$P'_{d,C'}$	0.2428
$P_{e,d}$	0.2364	$P'_{e,d}$	0.2331
$P_{g,F}$	0.5904	$P'_{g,F'}$	0.5230

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.931	0.866
2200	0.980	0.960
2000	0.991	0.983
1800	0.998	0.996
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.996	0.993
500	0.988	0.977
480	0.981	0.963
460	0.972	0.944
440	0.956	0.914
420	0.927	0.860
400	0.868	0.754
390	0.813	0.661
380	0.725	0.526
370	0.574	0.330
360	0.318	0.101
350		
340		
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.66932810E+000
A_1	-1.36919990E-002
A_2	4.84216360E-002
A_3	1.32160480E-003
A_4	2.42172580E-005
A_5	8.50124350E-006

熱特性	
Thermal Properties	
T_g (°C)	708
T_S (°C)	745
$T_{10}^{14.5}$ (°C)	649
T_{10}^{13} (°C)	685
$T_{10}^{7.6}$ (°C)	800
$\alpha_{20/120}$ ($10^{-7}/K$)	72
$\alpha_{100/300}$ ($10^{-7}/K$)	88
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0002

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	698
F_A	107
E ($10^7 Pa$)	13043
G ($10^7 Pa$)	4998
μ	0.305
B ($10^{-12}/Pa$)	0.93

その他の特性	
Other Properties	
ρ (g/cm^3)	5.1

屈折率温度係数定数	
Constants of dn/dt	
D_0	-4.45E-07
D_1	1.40E-08
D_2	-3.45E-11
E_0	9.44E-07
E_1	1.04E-09
λ_{TK} (μm)	0.253

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	1.9	2.8	3.3	3.8	4.6	6.3
-20~0	1.9	3.0	3.6	4.0	5.2	6.6
0~20	1.9	3.5	3.9	4.3	5.6	6.8
20~40	2.2	3.6	4.0	4.6	5.9	7.3
40~60	2.6	3.8	4.3	4.7	6.3	7.8
60~80	2.8	3.9	4.4	5.1	6.4	8.1

着色度	
Coloration Code	
λ_{70}/λ_5	42/36

H-ZLaF90S 001254	$n_d = 2.00069$	$v_d = 25.43$	$n_F - n_C = 0.03936$	
	$n_e = 2.00995$	$v_e = 25.24$	$n_{F'} - n_{C'} = 0.04002$	

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.96315
n_r	706.5	1.98327
n_c	656.3	1.98940
$n_{c'}$	643.8	1.99115
n_{He-Ne}	632.8	1.99280
n_D	589.3	2.00035
n_d	587.6	2.00069
n_e	546.1	2.00995
n_F	486.1	2.02875
$n_{F'}$	480.0	2.03117
n_g	435.8	2.05290
n_h	404.7	2.07471
n_i	365.0	

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2870	$P'_{d,C'}$	0.2384
$P_{e,d}$	0.2352	$P'_{e,d}$	0.2313
$P_{g,F}$	0.6137	$P'_{g,F'}$	0.5431

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.941	0.886
2200	0.981	0.962
2000	0.992	0.983
1800	0.997	0.993
1600	0.998	0.997
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.998	0.997
950	0.998	0.997
900	0.998	0.997
850	0.998	0.997
800	0.997	0.995
700	0.995	0.990
650	0.994	0.988
600	0.992	0.985
550	0.987	0.975
500	0.970	0.940
480	0.957	0.915
460	0.939	0.882
440	0.908	0.825
420	0.849	0.720
400	0.721	0.520
390	0.602	0.363
380	0.409	0.167
370	0.148	0.022
360		
350		
340		
330		
320		
310		
300		
290		
280		

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

色散公式定数	
Constants of Dispersion	
Formula	
A_0	3.81589580E+000
A_1	-1.88810020E-002
A_2	5.45200670E-002
A_3	5.08907680E-003
A_4	-4.44175740E-004
A_5	5.04546840E-005

熱特性	
Thermal Properties	
T_g (°C)	683
T_S (°C)	724
$T_{10}^{14.5}$ (°C)	634
T_{10}^{13} (°C)	668
$T_{10}^{7.6}$ (°C)	785
$\alpha_{20/120}$ ($10^{-7}/K$)	70
$\alpha_{100/300}$ ($10^{-7}/K$)	87
λ (W/m·K)	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	0.0021
$\Delta P_{g,F}$	0.0113

機械特性	
Mechanical Properties	
H_k ($10^7 Pa$)	625
F_A	124
E ($10^7 Pa$)	12348
G ($10^7 Pa$)	4756
μ	0.298
B ($10^{-12}/Pa$)	

その他の特性	
Other Properties	
ρ (g/cm ³)	4.74

屈折率温度係数定数	
Constants of dn/dt	
D_0	-2.21E-06
D_1	1.40E-08
D_2	-4.36E-11
E_0	1.10E-06
E_1	1.62E-09
λ_{TK} (μm)	0.284

屈折率温度係数						
Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	0.6	2.1	2.3	2.8	4.7	6.5
-20~0	0.8	2.1	2.8	3.4	5.0	7.1
0~20	1.1	2.2	3.1	3.7	5.6	7.8
20~40	1.2	2.6	3.5	4.5	6.0	8.3
40~60	1.2	3.2	3.9	4.6	6.7	9.0
60~80	1.2	3.5	4.0	4.7	7.0	9.3

着色度	
Coloration Code	
λ_{70}/λ_5	46/38

H-ZLaF92S	003283	$n_d = 2.00330$	$\nu_d = 28.32$
		$n_e = 2.01167$	$\nu_e = 28.11$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.96892
n_r	706.5	1.98746
n_c	656.3	1.99306
$n_{c'}$	643.8	1.99465
n_{He-Ne}	632.8	1.99616
n_D	589.3	2.00300
n_d	587.6	2.00330
n_e	546.1	2.01167
n_F	486.1	2.02850
$n_{F'}$	480.0	2.03064
n_g	435.8	2.04987
n_h	404.7	2.06885
n_i	365.0	2.10467

色散公式定数	
Constants of Dispersion Formula	
A_0	3.83592110E+000
A_1	-1.55216800E-002
A_2	5.58392180E-002
A_3	2.58423060E-003
A_4	-9.64328400E-005
A_5	2.26279200E-005

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0009
$\Delta P_{g, F}$	0.0057

その他の特性	
Other Properties	
ρ (g/cm ³)	5.02

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, c}$	0.2890	$P'_{d, c'}$	0.2403
$P_{e, d}$	0.2362	$P'_{e, d}$	0.2325
$P_{g, F}$	0.6031	$P'_{g, F'}$	0.5342

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	703
T_S (°C)	747
$T_{10}^{14.5}$ (°C)	658
T_{10}^{13} (°C)	693
$T_{10}^{7.6}$ (°C)	800
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	69
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	87
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	697
F_A	96
E (10 ⁷ Pa)	13318
G (10 ⁷ Pa)	5106
μ	0.304
B (10 ⁻¹² /Pa)	0.96

屈折率温度係数定数	
Constants of dn/dt	
D_0	-6.27E-07
D_1	1.53E-08
D_2	-2.95E-11
E_0	9.71E-07
E_1	1.40E-09
λ_{TK} (μm)	0.281

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	1.3	2.8	3.3	3.9	5.2	7.0
-20~0	1.7	3.1	3.6	4.1	5.7	7.5
0~20	2.0	3.5	3.8	4.7	5.9	7.8
20~40	2.2	3.8	4.4	4.9	6.7	8.7
40~60	2.5	4.0	4.6	5.3	7.2	9.3
60~80	2.6	4.2	5.0	5.9	7.5	9.6

リンス光学ガラスデータベース

Salience Optical Glass Products Database

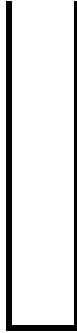
$n_F - n_C = 0.03543$	
$n_{F'} - n_{C'} = 0.03600$	

备注
Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.939	0.882
2200	0.981	0.963
2000	0.991	0.983
1800	0.997	0.993
1600	0.998	0.996
1400	0.998	0.997
1200	0.998	0.997
1060	0.998	0.996
1000	0.998	0.996
950	0.998	0.995
900	0.997	0.995
850	0.997	0.995
800	0.993	0.987
700	0.992	0.984
650	0.990	0.980
600	0.988	0.976
550	0.979	0.959
500	0.956	0.913
480	0.939	0.882
460	0.918	0.843
440	0.885	0.784
420	0.830	0.689
400	0.722	0.521
390	0.629	0.396
380	0.482	0.232
370	0.257	0.066
360	0.095	0.009
350		
340		
330		
320		
310		
300		
290		
280		

着色度

Coloration Code	
λ_{70} / λ_5	46/37
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	



H-ZF7S	805255	$n_d = 1.80518$	$\nu_d = 25.46$	$n_F - n_C =$
		$n_e = 1.81263$	$\nu_e = 25.25$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.77498
n_r	706.5	1.79118
n_C	656.3	1.79611
$n_{C'}$	643.8	1.79752
n_{He-Ne}	632.8	1.79885
n_D	589.3	1.80491
n_d	587.6	1.80518
n_e	546.1	1.81263
n_F	486.1	1.82774
$n_{F'}$	480.0	1.82970
n_g	435.8	1.84719
n_h	404.7	1.86479
n_i	365.0	1.89867

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0020
$\Delta P_{g, F}$	0.0127

その他の特性	
Other Properties	
ρ (g/cm ³)	3.35

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2868	$P'_{d,C'}$	0.2381
$P_{e,d}$	0.2356	$P'_{e,d}$	0.2316
$P_{g,F}$	0.6151	$P'_{g,F'}$	0.5437

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	580
T_S (°C)	615
$T_{10}^{14.5}$ (°C)	530
T_{10}^{13} (°C)	558
$T_{10}^{7.6}$ (°C)	678
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	90
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	113
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	513
F_A	192
E (10 ⁷ Pa)	8994
G (10 ⁷ Pa)	3555
μ	0.265
B (10 ⁻¹² /Pa)	2.65

屈折率温度係数定数	
Constants of dn/dt	
D_0	-7.91E-06
D_1	1.24E-08
D_2	-3.12E-11
E_0	1.09E-06
E_1	1.48E-09
λ_{TK} (μm)	0.281

内部透	
Internal Tra	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-3.1	-1.7	-1.4	-0.8	0.6	1.7
-20~0	-2.7	-1.5	-1.0	-0.6	0.8	2.6
0~20	-2.5	-1.1	-0.9	-0.4	0.9	2.5
20~40	-2.4	-1.1	-0.7	0.0	1.6	3.2
40~60	-2.3	-0.9	-0.3	0.1	1.9	3.8
60~80	-2.3	-0.8	-0.3	0.5	2.1	4.0

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.03163	
0.03218	

备注
Note

透過比	
Transmittance	
τ 5mm	τ 10mm
0.924	0.854
0.958	0.917
0.976	0.953
0.986	0.973
0.996	0.992
0.998	0.996
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.998	0.996
0.998	0.996
0.997	0.995
0.997	0.995
0.996	0.993
0.992	0.985
0.991	0.982
0.988	0.976
0.982	0.965
0.970	0.940
0.936	0.877
0.900	0.810
0.804	0.647
0.556	0.309
0.145	0.021

度

on Code
43/37
215

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H-ZF13S	785257	$n_d = 1.78472$	$\nu_d = 25.72$	$n_F - n_C =$
		$n_e = 1.79191$	$\nu_e = 25.51$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.75543
n_r	706.5	1.77120
n_C	656.3	1.77597
$n_{C'}$	643.8	1.77733
n_{He-Ne}	632.8	1.77861
n_D	589.3	1.78446
n_d	587.6	1.78472
n_e	546.1	1.79191
n_F	486.1	1.80648
$n_{F'}$	480.0	1.80837
n_g	435.8	1.82530
n_h	404.7	1.84236
n_i	365.0	

色散公式定数	
Constants of Dispersion Formula	
A_0	3.05150940E+000
A_1	-1.23177100E-002
A_2	4.21532610E-002
A_3	1.81669630E-003
A_4	-2.87661520E-005
A_5	1.88518510E-005

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0023
$\Delta P_{g, F}$	0.0149

その他の特性	
Other Properties	
ρ (g/cm ³)	3.25

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2687	$P'_{d,C'}$	0.2380
$P_{e,d}$	0.2356	$P'_{e,d}$	0.2315
$P_{g,F}$	0.6168	$P'_{g,F'}$	0.5454

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	610
T_S (°C)	644
$T_{10}^{14.5}$ (°C)	556
T_{10}^{13} (°C)	593
$T_{10}^{7.6}$ (°C)	707
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	94
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	106
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	544
F_A	187
E (10 ⁷ Pa)	9196
G (10 ⁷ Pa)	3675
μ	0.251
B (10 ⁻¹² /Pa)	2.73

屈折率温度係数定数	
Constants of dn/dt	
D_0	-4.97E-06
D_1	1.25E-08
D_2	-2.17E-11
E_0	1.02E-06
E_1	2.47E-09
λ_{TK} (μm)	0.282

内部透	
Internal Tra	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-0.5	-0.3	0.5	0.7	1.4	2.0
-20~0	-0.6	0.2	0.8	1.4	2.7	3.1
0~20	-1.1	0.4	0.6	1.4	2.6	3.4
20~40	-0.4	0.8	1.0	1.5	3.1	4.0
40~60	-0.4	0.9	1.4	1.7	3.8	5.4
60~80	-0.3	0.9	2.1	3.2	4.6	5.9

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.03051	
0.03104	

备注
Note

透過比	
Transmittance	
τ 5mm	τ 10mm
0.953	0.909
0.972	0.944
0.987	0.974
0.993	0.987
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.998	0.996
0.997	0.995
0.997	0.994
0.996	0.992
0.991	0.983
0.989	0.978
0.985	0.971
0.978	0.956
0.959	0.919
0.900	0.810
0.810	0.650
0.620	0.380
0.270	0.070

度

on Code
43/37
240

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H-ZF52S	847238	$n_d = 1.84666$	$v_d = 23.78$
		$n_e = 1.85504$	$v_e = 23.60$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.81298
n_T	706.5	1.83099
n_C	656.3	1.83650
$n_{C'}$	643.8	1.83807
n_{He-Ne}	632.8	1.83956
n_D	589.3	1.84635
n_d	587.6	1.84666
n_e	546.1	1.85504
n_F	486.1	1.87209
$n_{F'}$	480.0	1.87431
n_g	435.8	1.89419
n_h	404.7	1.91428
n_i	365.0	

色散公式定数	
Constants of Dispersion	
Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0026
$\Delta P_{g, F}$	0.0155

その他の特性	
Other Properties	
ρ (g/cm ³)	3.51

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.2855	$P'_{d, C'}$	0.2370
$P_{e, d}$	0.2353	$P'_{e, d}$	0.2312
$P_{g, F}$	0.6207	$P'_{g, F'}$	0.5485

化学的安定性	
Chemical Properties	
	Grade
RC (S)	2
RA (S)	1
D_w	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	626
T_S (°C)	653
$T_{10}^{14.5}$ (°C)	572
T_{10}^{13} (°C)	605
$T_{10}^{7.6}$ (°C)	711
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	88
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	108
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	555
F_A	185
E (10 ⁷ Pa)	9478
G (10 ⁷ Pa)	3742
μ	0.266
B (10 ⁻¹² /Pa)	2.71

屈折率温度係数定数	
Constants of dn/dt	
D_0	-6.18E-06
D_1	1.63E-08
D_2	-4.50E-11
E_0	1.12E-06
E_1	1.19E-09
λ_{TK} (μm)	0.291

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-2.0	-0.7	-0.1	0.4	1.9	3.3
-20~0	-1.9	-0.5	0.0	0.6	2.0	4.1
0~20	-1.9	-0.4	0.1	0.7	2.5	4.5
20~40	-1.4	0.1	0.6	1.5	3.0	5.2
40~60	-1.1	0.3	1.0	1.8	3.4	5.5
60~80	-1.0	0.6	1.0	2.0	3.5	5.8

セリンス光学ガラスデータベース

Salience Optical Glass Products Database

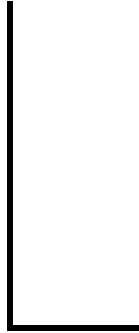
$n_F - n_C =$	0.03560	
$n_{F'} - n_{C'} =$	0.03624	

备注
Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.943	0.890
2200	0.969	0.939
2000	0.983	0.966
1800	0.989	0.979
1600	0.996	0.992
1400	0.997	0.995
1200	0.999	0.998
1060	0.998	0.997
1000	0.998	0.997
950	0.998	0.997
900	0.998	0.997
850	0.998	0.997
800	0.996	0.994
700	0.995	0.991
650	0.995	0.990
600	0.995	0.991
550	0.993	0.987
500	0.986	0.973
480	0.982	0.964
460	0.976	0.953
440	0.965	0.931
420	0.947	0.896
400	0.888	0.789
390	0.813	0.661
380	0.643	0.413
370	0.300	0.090
360		
350		
340		
330		
320		
310		
300		
290		
280		

着色度

Coloration Code	
λ_{70}/λ_5	41/37
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	250



H-ZF62S	923209	$n_d = 1.92286$	$\nu_d = 20.88$
		$n_e = 1.93322$	$\nu_e = 20.70$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.88195
n_r	706.5	1.90369
n_c	656.3	1.91039
$n_{c'}$	643.8	1.91232
n_{He-Ne}	632.8	1.91414
n_D	589.3	1.92248
n_d	587.6	1.92286
n_e	546.1	1.93322
n_F	486.1	1.95459
$n_{F'}$	480.0	1.95740
n_g	435.8	1.98287
n_h	404.7	2.00927
n_i	365.0	

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0053
$\Delta P_{g, F}$	0.0298

その他の特性	
Other Properties	
ρ (g/cm ³)	4.01

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, c}$	0.2821	$P'_{d, c'}$	0.2338
$P_{e, d}$	0.2345	$P'_{e, d}$	0.2299
$P_{g, F}$	0.6399	$P'_{g, F'}$	0.5651

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	720
T_S (°C)	751
$T_{10}^{14.5}$ (°C)	667
T_{10}^{13} (°C)	699
$T_{10}^{7.6}$ (°C)	806
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	64
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	77
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	475
F_A	200
E (10 ⁷ Pa)	9443
G (10 ⁷ Pa)	3734
μ	0.264
B (10 ⁻¹² /Pa)	2.77

屈折率温度係数定数	
Constants of dn/dt	
D_0	-6.75E-06
D_1	1.69E-08
D_2	-4.10E-11
E_0	9.81E-07
E_1	1.32E-09
λ_{TK} (μm)	0.322

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-2.6	-1.5	-1.1	-0.5	1.4	3.5
-20~0	-2.5	-1.3	-0.8	-0.1	1.8	4.1
0~20	-2.4	-1.2	-0.4	0.3	2.1	4.9
20~40	-2.2	-0.5	0.1	0.8	2.8	5.6
40~60	-1.9	-0.2	0.6	1.4	3.5	6.4
60~80	-1.5	0.1	0.9	1.7	4.0	7.1

リンス光学ガラスデータベース

Saliency Optical Glass Products Database

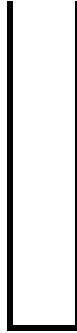
$n_F - n_C = 0.04420$	
$n_{F'} - n_{C'} = 0.04508$	

备注
Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.969	0.938
2200	0.981	0.962
2000	0.990	0.979
1800	0.994	0.987
1600	0.997	0.995
1400	0.999	0.997
1200	0.999	0.998
1060	0.999	0.997
1000	0.998	0.996
950	0.998	0.996
900	0.997	0.994
850	0.997	0.994
800	0.996	0.992
700	0.995	0.990
650	0.993	0.986
600	0.992	0.984
550	0.986	0.973
500	0.972	0.944
480	0.964	0.929
460	0.953	0.908
440	0.933	0.871
420	0.894	0.799
400	0.732	0.536
390	0.459	0.211
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

着色度

Coloration Code	
λ_{70} / λ_5	44/39
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	251



H-ZF71S	808227	$n_d = 1.80810$	$\nu_d = 22.70$
		$n_e = 1.81646$	$\nu_e = 22.51$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.77451
n_r	706.5	1.79251
n_c	656.3	1.79798
$n_{c'}$	643.8	1.79955
n_{He-Ne}	632.8	1.80103
n_D	589.3	1.80780
n_d	587.6	1.80810
n_e	546.1	1.81646
n_F	486.1	1.83359
$n_{F'}$	480.0	1.83582
n_g	435.8	1.85600
n_h	404.7	1.87663
n_i	365.0	

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0038
$\Delta P_{g, F}$	0.0224

その他の特性	
Other Properties	
ρ (g/cm ³)	3.30

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, c}$	0.2842	$P'_{d, c'}$	0.2357
$P_{e, d}$	0.2349	$P'_{e, d}$	0.2306
$P_{g, F}$	0.6295	$P'_{g, F'}$	0.5562

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	566
T_S (°C)	611
$T_{10}^{14.5}$ (°C)	522
T_{10}^{13} (°C)	555
$T_{10}^{7.6}$ (°C)	663
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	93
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	105
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	428
F_A	275
E (10 ⁷ Pa)	8537
G (10 ⁷ Pa)	3398
μ	0.256
B (10 ⁻¹² /Pa)	3.48

屈折率温度係数定数	
Constants of dn/dt	
D_0	-9.66E-06
D_1	1.15E-08
D_2	-5.06E-11
E_0	9.75E-07
E_1	1.26E-09
λ_{TK} (μm)	0.313

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-3.9	-2.8	-2.4	-1.8	-0.5	1.2
-20~0	-3.8	-2.7	-2.2	-1.6	-0.3	1.7
0~20	-3.7	-2.5	-2.0	-1.5	0.2	2.1
20~40	-3.6	-2.4	-1.9	-1.2	0.5	2.5
40~60	-3.5	-2.3	-1.7	-1.0	0.6	3.0
60~80	-3.3	-2.1	-1.4	-0.9	1.1	3.4

リンス光学ガラスデータベース

Saliency Optical Glass Products Database

$n_F - n_C = 0.03560$	
$n_{F'} - n_{C'} = 0.03627$	

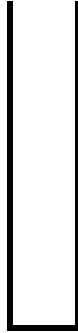
备注

Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.936	0.876
2200	0.966	0.934
2000	0.987	0.975
1800	0.993	0.986
1600	0.997	0.994
1400	0.998	0.996
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.996
700	0.997	0.995
650	0.997	0.994
600	0.996	0.993
550	0.994	0.989
500	0.987	0.974
480	0.983	0.967
460	0.978	0.957
440	0.970	0.940
420	0.955	0.912
400	0.907	0.823
390	0.815	0.665
380	0.547	0.299
370	0.114	0.013
360		
350		
340		
330		
320		
310		
300		
290		
280		

着色度

Coloration Code	
λ_{80} / λ_5	45/37
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	250



H-ZF72S	923189	$n_d = 1.92286$	$\nu_d = 18.90$	$n_F - n_C =$
		$n_e = 1.93429$	$\nu_e = 18.74$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.87812
n_r	706.5	1.90183
n_C	656.3	1.90917
$n_{C'}$	643.8	1.91128
n_{He-Ne}	632.8	1.91328
n_D	589.3	1.92245
n_d	587.6	1.92286
n_e	546.1	1.93429
n_F	486.1	1.95800
$n_{F'}$	480.0	1.96114
n_g	435.8	1.98974
n_h	404.7	2.01978
n_i	365.0	

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0064
$\Delta P_{g, F}$	0.0363

その他の特性	
Other Properties	
ρ (g/cm ³)	3.57

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.2804	$P'_{d,C'}$	0.2323
$P_{e,d}$	0.2340	$P'_{e,d}$	0.2293
$P_{g,F}$	0.6499	$P'_{g,F'}$	0.5738

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

熱特性	
Thermal Properties	
T_g (°C)	667
T_S (°C)	697
$T_{10}^{14.5}$ (°C)	614
T_{10}^{13} (°C)	649
$T_{10}^{7.6}$ (°C)	749
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	67
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	84
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	484
F_A	193
E (10 ⁷ Pa)	10223
G (10 ⁷ Pa)	4012
μ	0.274
B (10 ⁻¹² /Pa)	3.19

屈折率温度係数定数	
Constants of dn/dt	
D_0	-5.63E-06
D_1	1.59E-08
D_2	-4.96E-11
E_0	1.13E-06
E_1	1.73E-09
λ_{TK} (μm)	0.328

内部透	
Internal Tra	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-2.1	-0.5	0.2	0.8	2.8	5.8
-20~0	-1.7	-0.2	0.6	1.5	3.6	6.4
0~20	-1.2	0.2	0.9	1.8	4.1	7.1
20~40	-0.8	0.6	1.4	2.1	4.8	8.4
40~60	-0.5	0.8	1.7	2.6	5.3	9.1
60~80	-1.0	1.0	2.0	3.1	5.9	9.8

Colorati
λ_{70}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.04884	
0.04986	

备注
Note

透過比	
Transmittance	
τ 5mm	τ 10mm
0.963	0.927
0.978	0.956
0.988	0.976
0.993	0.986
0.997	0.995
0.999	0.998
0.999	0.998
0.999	0.998
0.998	0.997
0.998	0.997
0.998	0.997
0.998	0.997
0.998	0.997
0.998	0.996
0.997	0.995
0.997	0.994
0.996	0.992
0.991	0.982
0.977	0.955
0.967	0.935
0.950	0.903
0.921	0.849
0.860	0.740
0.594	0.353
0.230	0.053

度

on Code
44/39
280

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H-ZPK1S	618634	$n_d = 1.61800$	$\nu_d = 63.39$	$n_F - n_C =$
		$n_e = 1.62032$	$\nu_e = 63.11$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.60715
n_r	706.5	1.61334
n_C	656.3	1.61503
$n_{C'}$	643.8	1.61550
n_{He-Ne}	632.8	1.61594
n_D	589.3	1.61791
n_d	587.6	1.61800
n_e	546.1	1.62032
n_F	486.1	1.62478
$n_{F'}$	480.0	1.62533
n_g	435.8	1.63004
n_h	404.7	1.63439
n_i	365.0	1.64177

色散公式定数	
Constants of Dispersion	
Formula	
A_0	2.57612635E+000
A_1	-7.80401598E-003
A_2	1.52465014E-002
A_3	-2.07740160E-005
A_4	2.28544414E-005
A_5	-8.23333227E-007

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0024
$\Delta P_{g, F}$	0.0019

その他の特性	
Other Properties	
ρ (g/cm ³)	3.50

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3047	$P'_{d,C'}$	0.2543
$P_{e,d}$	0.2380	$P'_{e,d}$	0.2360
$P_{g,F}$	0.5396	$P'_{g,F'}$	0.4792

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	4

熱特性	
Thermal Properties	
T_g (°C)	618
T_S (°C)	650
$T_{10}^{14.5}$ (°C)	553
T_{10}^{13} (°C)	589
$T_{10}^{7.6}$ (°C)	703
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	99
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	114
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	379
F_A	324
E (10 ⁷ Pa)	7162
G (10 ⁷ Pa)	2772
μ	0.292
B (10 ⁻¹² /Pa)	1.11

屈折率温度係数定数	
Constants of dn/dt	
D_0	-1.07E-05
D_1	1.43E-08
D_2	-5.77E-11
E_0	3.87E-07
E_1	8.82E-11
λ_{TK} (μm)	0.189

内部透過率	
Internal Transmittance	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-3.9	-3.6	-3.5	-3.4	-3.2	-3.1
-20~0	-3.7	-3.4	-3.3	-3.2	-3.1	-2.8
0~20	-3.7	-3.4	-3.3	-3.2	-2.9	-2.8
20~40	-3.6	-3.3	-3.2	-3.1	-2.9	-2.6
40~60	-3.5	-3.3	-3.2	-3.0	-2.8	-2.5
60~80	-3.5	-3.2	-3.1	-2.9	-2.7	-2.4

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.00975	
0.00983	

备注
Note

透過比	
Transmittance	
τ 5mm	τ 10mm
0.949	0.901
0.965	0.932
0.983	0.966
0.991	0.982
0.997	0.994
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.997	0.995
0.997	0.994
0.996	0.993
0.995	0.990
0.995	0.990
0.991	0.983
0.987	0.975
0.978	0.957
0.960	0.921
0.924	0.854
0.863	0.745
0.766	0.586
0.629	0.396
0.469	0.220
0.318	0.101
0.205	0.042

度

on Code
35/29
105

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H-ZPK2S	603655	$n_d = 1.60300$	$\nu_d = 65.47$
		$n_e = 1.60520$	$\nu_e = 65.15$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.59256
n_r	706.5	1.59858
n_c	656.3	1.60019
$n_{c'}$	643.8	1.60063
n_{He-Ne}	632.8	1.60105
n_D	589.3	1.60292
n_d	587.6	1.60300
n_e	546.1	1.60520
n_F	486.1	1.60940
$n_{F'}$	480.0	1.60992
n_g	435.8	1.61438
n_h	404.7	1.61850
n_i	365.0	1.62550

色散公式定数	
Constants of Dispersion Formula	
A_0	2.53073192E+000
A_1	-8.34429910E-003
A_2	1.46551845E-002
A_3	-2.16647389E-004
A_4	5.35525389E-005
A_5	-2.46158263E-006

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	0.0020
$\Delta P_{g, F}$	0.0065

その他の特性	
Other Properties	
ρ (g/cm ³)	3.50

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, c}$	0.3051	$P'_{d, c'}$	0.2551
$P_{e, d}$	0.2389	$P'_{e, d}$	0.2368
$P_{g, F}$	0.5407	$P'_{g, F'}$	0.4801

化学的安定性	
Chemical Properties	
	Grade
RC(S)	3
RA(S)	1
D_W	1
D_A	4

熱特性	
Thermal Properties	
T_g (°C)	619
T_S (°C)	648
$T_{10}^{14.5}$ (°C)	563
T_{10}^{13} (°C)	595
$T_{10}^{7.6}$ (°C)	699
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	93
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	115
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	382
F_A	273
E (10 ⁷ Pa)	6814
G (10 ⁷ Pa)	2651
μ	0.285
B (10 ⁻¹² /Pa)	1.10

屈折率温度係数定数	
Constants of dn/dt	
D_0	-1.20E-05
D_1	1.48E-08
D_2	-5.44E-11
E_0	4.30E-07
E_1	-2.49E-10
λ_{TK} (μm)	0.158

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	-4.2	-4.1	-3.9	-3.7	-3.5	-3.4
-20~0	-4.2	-4.0	-3.9	-3.7	-3.5	-3.3
0~20	-4.2	-3.8	-3.7	-3.6	-3.4	-3.2
20~40	-4.1	-3.8	-3.7	-3.6	-3.4	-3.1
40~60	-3.9	-3.7	-3.6	-3.5	-3.4	-3.1
60~80	-3.9	-3.7	-3.6	-3.5	-3.4	-3.1

リンス光学ガラスデータベース

Saliency Optical Glass Products Database

$n_F - n_C = 0.00921$	
$n_{F'} - n_{C'} = 0.00929$	

备注

Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.922	0.850
2200	0.943	0.889
2000	0.971	0.943
1800	0.985	0.970
1600	0.995	0.990
1400	0.998	0.997
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.997
600	0.998	0.997
550	0.998	0.997
500	0.997	0.995
480	0.997	0.994
460	0.996	0.993
440	0.995	0.990
420	0.995	0.990
400	0.992	0.984
390	0.987	0.975
380	0.978	0.957
370	0.961	0.923
360	0.926	0.857
350	0.862	0.743
340	0.751	0.564
330	0.581	0.337
320	0.361	0.130
310	0.164	0.027
300		
290		
280		

着色度

Coloration Code	
λ_{80} / λ_5	36/31
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	100

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D-K9S	516641	$n_d =$	1.51633	$v_d =$	64.06
		$n_e =$	1.51825	$v_e =$	63.86

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.50678
n_T	706.5	1.51241
n_C	656.3	1.51385
$n_{C'}$	643.8	1.51425
n_{He-Ne}	632.8	1.51462
n_D	589.3	1.51626
n_d	587.6	1.51633
n_e	546.1	1.51825
n_F	486.1	1.52191
$n_{F'}$	480.0	1.52236
n_g	435.8	1.52621
n_h	404.7	1.52976
n_i	365.0	1.53576

色散公式定数	
Constants of Dispersion	
Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0015
$\Delta P_{g, F}$	-0.0027

その他の特性	
Other Properties	
ρ (g/cm ³)	2.41

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.3081	$P'_{d, C'}$	0.2569
$P_{e, d}$	0.2387	$P'_{e, d}$	0.2371
$P_{g, F}$	0.5339	$P'_{g, F'}$	0.4744

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D_w	1
D_A	2

熱特性	
Thermal Properties	
T_g (°C)	496
T_S (°C)	558
$T_{10}^{14.5}$ (°C)	451
T_{10}^{13} (°C)	483
$T_{10}^{7.6}$ (°C)	637
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	63
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	78
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	492
F_A	72
E (10 ⁷ Pa)	8318
G (10 ⁷ Pa)	3430
μ	0.212
B (10 ⁻¹² /Pa)	2.72

屈折率温度係数定数	
Constants of dn/dt	
D_0	4.87E-06
D_1	1.55E-08
D_2	-1.35E-11
E_0	4.17E-07
E_1	5.20E-10
λ_{TK} (μm)	0.177

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	3.5	3.8	3.9	4.0	4.2	4.5
-20~0	3.6	3.8	3.9	4.0	4.2	4.6
0~20	3.6	3.9	4.0	4.1	4.3	4.7
20~40	3.7	4.0	4.1	4.3	4.5	4.8
40~60	3.8	4.1	4.2	4.5	4.6	4.9
60~80	3.8	4.2	4.3	4.5	4.8	5.0

セリンス光学ガラスデータベース

Saliency Optical Glass Products Database

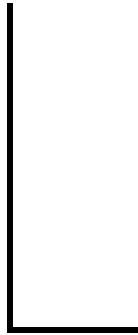
$n_F - n_C =$	0.00806	
$n_F' - n_C' =$	0.00812	

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.918	0.842
2200	0.952	0.906
2000	0.989	0.978
1800	0.995	0.990
1600	0.997	0.995
1400	0.991	0.982
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.997
550	0.998	0.996
500	0.998	0.996
480	0.998	0.996
460	0.998	0.996
440	0.998	0.996
420	0.998	0.996
400	0.998	0.996
390	0.997	0.994
380	0.996	0.992
370	0.994	0.989
360	0.990	0.981
350	0.980	0.960
340	0.968	0.937
330	0.927	0.860
320	0.851	0.725
310	0.710	0.504
300	0.498	0.248
290	0.257	0.066
280		

着色度

备注
Note
退火速率 -4 °C/h

Coloration Code	
λ_{80} / λ_5	32/28
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	



D-K9S-25	516640	$n_d =$	1.51577	$v_d =$	63.99
		$n_e =$	1.51769	$v_e =$	63.79

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.50622
n_T	706.5	1.51185
n_C	656.3	1.51329
$n_{C'}$	643.8	1.51369
n_{He-Ne}	632.8	1.51406
n_D	589.3	1.51570
n_d	587.6	1.51577
n_e	546.1	1.51769
n_F	486.1	1.52135
$n_{F'}$	480.0	1.52180
n_g	435.8	1.52565
n_h	404.7	1.52920
n_i	365.0	1.53520

色散公式定数	
Constants of Dispersion	
Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0016
$\Delta P_{g, F}$	-0.0029

その他の特性	
Other Properties	
ρ (g/cm ³)	2.41

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.3081	$P'_{d, C'}$	0.2569
$P_{e, d}$	0.2387	$P'_{e, d}$	0.2371
$P_{g, F}$	0.5339	$P'_{g, F'}$	0.4744

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D_w	1
D_A	2

熱特性	
Thermal Properties	
T_g (°C)	496
T_S (°C)	558
$T_{10}^{14.5}$ (°C)	451
T_{10}^{13} (°C)	483
$T_{10}^{7.6}$ (°C)	637
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	63
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	78
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	492
F_A	72
E (10 ⁷ Pa)	8318
G (10 ⁷ Pa)	3430
μ	0.212
B (10 ⁻¹² /Pa)	2.72

屈折率温度係数定数	
Constants of dn/dt	
D_0	4.87E-06
D_1	1.55E-08
D_2	-1.35E-11
E_0	4.17E-07
E_1	5.20E-10
λ_{TK} (μm)	0.177

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	3.5	3.8	3.9	4.0	4.2	4.5
-20~0	3.6	3.8	3.9	4.0	4.2	4.6
0~20	3.6	3.9	4.0	4.1	4.3	4.7
20~40	3.7	4.0	4.1	4.3	4.5	4.8
40~60	3.8	4.1	4.2	4.5	4.6	4.9
60~80	3.8	4.2	4.3	4.5	4.8	5.0

セリンス光学ガラスデータベース

Saliency Optical Glass Products Database

$n_F - n_C =$	0.00806	
$n_F' - n_C' =$	0.00812	

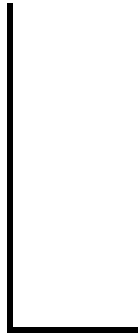
内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.918	0.842
2200	0.952	0.906
2000	0.989	0.978
1800	0.995	0.990
1600	0.997	0.995
1400	0.991	0.982
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.997
550	0.998	0.996
500	0.998	0.996
480	0.998	0.996
460	0.998	0.996
440	0.998	0.996
420	0.998	0.996
400	0.998	0.996
390	0.997	0.994
380	0.996	0.992
370	0.994	0.989
360	0.990	0.981
350	0.980	0.960
340	0.968	0.937
330	0.927	0.860
320	0.851	0.725
310	0.710	0.504
300	0.498	0.248
290	0.257	0.066
280		

着色度

备注
Note

退火速率
-25
°C/h

Coloration Code	
λ_{80} / λ_5	32/28
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	



D-ZK2S	583594	$n_d =$	1.58313	$v_d =$	59.38
		$n_e =$	1.58547	$v_e =$	59.14

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.57196
n_T	706.5	1.57842
n_C	656.3	1.58013
$n_{C'}$	643.8	1.58061
n_{He-Ne}	632.8	1.58106
n_D	589.3	1.58304
n_d	587.6	1.58313
n_e	546.1	1.58547
n_F	486.1	1.58995
$n_{F'}$	480.0	1.59051
n_g	435.8	1.59527
n_h	404.7	1.59967
n_i	365.0	1.60717

色散公式定数	
Constants of Dispersion	
Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0009
$\Delta P_{g, F}$	-0.0033

その他の特性	
Other Properties	
ρ (g/cm ³)	2.96

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.3051	$P'_{d, C'}$	0.2544
$P_{e, d}$	0.2385	$P'_{e, d}$	0.2366
$P_{g, F}$	0.5412	$P'_{g, F'}$	0.4806

化学的安定性	
Chemical Properties	
	Grade
RC(S)	2
RA(S)	3
D_w	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	501
T_S (°C)	545
$T_{10}^{14.5}$ (°C)	456
T_{10}^{13} (°C)	490
$T_{10}^{7.6}$ (°C)	604
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	92
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	610
F_A	93
E (10 ⁷ Pa)	9044
G (10 ⁷ Pa)	3635
μ	0.244
B (10 ⁻¹² /Pa)	2.20

屈折率温度係数定数	
Constants of dn/dt	
D_0	2.00E-06
D_1	1.15E-08
D_2	4.47E-11
E_0	6.34E-07
E_1	6.43E-10
λ_{TK} (μm)	0.089

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	2.5	3.2	3.5	3.7	3.9	4.2
-20~0	2.4	3.1	3.3	3.5	3.9	4.2
0~20	2.7	3.1	3.4	3.5	3.8	4.2
20~40	2.7	3.1	3.5	3.6	3.9	4.2
40~60	2.8	3.2	3.4	3.6	3.9	4.3
60~80	3.1	3.5	3.8	4.1	4.4	4.6

セリンス光学ガラスデータベース

Salience Optical Glass Products Database

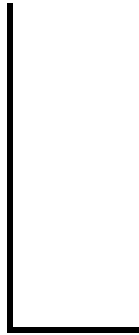
$n_F - n_C =$	0.00982	
$n_{F'} - n_{C'} =$	0.00990	

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.897	0.804
2200	0.943	0.888
2000	0.983	0.966
1800	0.991	0.982
1600	0.996	0.992
1400	0.993	0.986
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.998	0.997
600	0.998	0.997
550	0.998	0.997
500	0.998	0.997
480	0.998	0.996
460	0.997	0.995
440	0.996	0.992
420	0.996	0.992
400	0.995	0.991
390	0.994	0.989
380	0.993	0.987
370	0.989	0.979
360	0.982	0.965
350	0.967	0.936
340	0.939	0.881
330	0.887	0.786
320	0.794	0.631
310	0.650	0.422
300	0.462	0.213
290	0.270	0.073
280	0.148	0.022

着色度

备注
Note
退火速率 -4 °C/h

Coloration Code	
λ_{80} / λ_5	34/29
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	90



D-ZK2S-25	582593	$n_d =$	1.58241	$\nu_d =$	59.31
		$n_e =$	1.58475	$\nu_e =$	59.07

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.57124
n_r	706.5	1.57770
n_c	656.3	1.57941
$n_{c'}$	643.8	1.57989
n_{He-Ne}	632.8	1.58034
n_D	589.3	1.58232
n_d	587.6	1.58241
n_e	546.1	1.58475
n_F	486.1	1.58923
$n_{F'}$	480.0	1.58979
n_g	435.8	1.59455
n_h	404.7	1.59895
n_i	365.0	1.60644

色散公式定数	
Constants of Dispersion	
	Formula
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0010
$\Delta P_{g, F}$	-0.0035

その他の特性	
Other Properties	
ρ (g/cm ³)	2.96

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.3052	$P'_{d, C'}$	0.2544
$P_{e, d}$	0.2385	$P'_{e, d}$	0.2366
$P_{g, F}$	0.5412	$P'_{g, F'}$	0.4805

化学的安定性	
Chemical Properties	
	Grade
RC(S)	2
RA(S)	3
D_w	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	501
T_S (°C)	545
$T_{10}^{14.5}$ (°C)	456
T_{10}^{13} (°C)	490
$T_{10}^{7.6}$ (°C)	604
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	92
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	610
F_A	93
E (10 ⁷ Pa)	9044
G (10 ⁷ Pa)	3635
μ	0.244
B (10 ⁻¹² /Pa)	2.20

屈折率温度係数定数	
Constants of dn/dt	
D_0	2.00E-06
D_1	1.15E-08
D_2	4.47E-11
E_0	6.34E-07
E_1	6.43E-10
λ_{TK} (μm)	0.089

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	2.5	3.2	3.5	3.7	3.9	4.2
-20~0	2.4	3.1	3.3	3.5	3.9	4.2
0~20	2.7	3.1	3.4	3.5	3.8	4.2
20~40	2.7	3.1	3.5	3.6	3.9	4.2
40~60	2.8	3.2	3.4	3.6	3.9	4.3
60~80	3.1	3.5	3.8	4.1	4.4	4.6

A

セリンス光学ガラスデータベース

Saliency Optical Glass Products Database

$n_F - n_C =$	0.00982	
$n_{F'} - n_{C'} =$	0.00990	

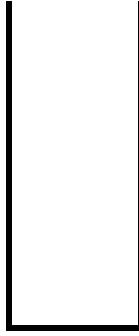
备注
Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.897	0.804
2200	0.943	0.888
2000	0.983	0.966
1800	0.991	0.982
1600	0.996	0.992
1400	0.993	0.986
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.998	0.997
600	0.998	0.997
550	0.998	0.997
500	0.998	0.997
480	0.998	0.996
460	0.997	0.995
440	0.996	0.992
420	0.996	0.992
400	0.995	0.991
390	0.994	0.989
380	0.993	0.987
370	0.989	0.979
360	0.982	0.965
350	0.967	0.936
340	0.939	0.881
330	0.887	0.786
320	0.794	0.631
310	0.650	0.422
300	0.462	0.213
290	0.270	0.073
280	0.148	0.022

退火速率
-25
°C/h

着色度

Coloration Code	
λ_{80}/λ_5	34/29
退火增值系数	
annealing Increasing	
Coefficient of n_d	
β	90



D-ZK3S 589612	$n_d =$ 1.58913	$v_d =$ 61.15
	$n_e =$ 1.59143	$v_e =$ 60.95

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.57790
n_T	706.5	1.58447
n_C	656.3	1.58617
$n_{C'}$	643.8	1.58665
n_{He-Ne}	632.8	1.58709
n_D	589.3	1.58904
n_d	587.6	1.58913
n_e	546.1	1.59143
n_F	486.1	1.59581
$n_{F'}$	480.0	1.59635
n_g	435.8	1.60097
n_h	404.7	1.60524
n_i	365.0	1.61247

色散公式定数	
Constants of Dispersion	
Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0019
$\Delta P_{g, F}$	-0.0053

その他の特性	
Other Properties	
ρ (g/cm ³)	2.83

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.3069	$P'_{d, C'}$	0.2560
$P_{e, d}$	0.2386	$P'_{e, d}$	0.2369
$P_{g, F}$	0.5362	$P'_{g, F'}$	0.4764

化学的安定性	
Chemical Properties	
	Grade
RC(S)	2
RA(S)	3
D_w	3
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	515
T_S (°C)	560
$T_{10}^{14.5}$ (°C)	471
T_{10}^{13} (°C)	499
$T_{10}^{7.6}$ (°C)	605
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	72
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	93
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	628
F_A	125
E (10 ⁷ Pa)	9767
G (10 ⁷ Pa)	3958
μ	0.234
B (10 ⁻¹² /Pa)	2.08

屈折率温度係数定数	
Constants of dn/dt	
D_0	1.68E-06
D_1	9.68E-09
D_2	-2.00E-11
E_0	5.34E-07
E_1	1.41E-09
λ_{TK} (μm)	0.172

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	2.5	3.0	3.1	3.2	3.4	3.5
-20~0	2.3	2.8	2.9	3.3	3.5	3.7
0~20	2.5	2.8	3.2	3.4	3.5	3.8
20~40	2.3	3.1	3.0	3.2	3.7	4.6
40~60	2.6	3.0	3.1	3.1	3.9	3.9
60~80	3.1	3.3	3.4	3.4	3.8	3.9

A

セリンス光学ガラスデータベース

Saliency Optical Glass Products Database

$n_F - n_C =$	0.00963	
$n_{F'} - n_{C'} =$	0.00970	

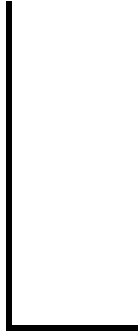
备注
Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.830	0.690
2200	0.916	0.839
2000	0.977	0.954
1800	0.989	0.979
1600	0.998	0.996
1400	0.994	0.989
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.998	0.997
480	0.998	0.996
460	0.998	0.996
440	0.997	0.995
420	0.997	0.994
400	0.995	0.991
390	0.993	0.987
380	0.990	0.980
370	0.983	0.966
360	0.967	0.936
350	0.939	0.882
340	0.880	0.780
330	0.790	0.630
320	0.660	0.430
310	0.470	0.220
300	0.280	0.080
290	0.130	0.020
280		

退火速率
-4
°C/h

着色度

Coloration Code	
λ_{80}/λ_5	35/30
退火增值系数	
annealing Increasein	
Coefficient of n_d	
β	100



D-ZK3S-25 588613	$n_d = 1.58833$	$\nu_d = 61.28$	$n_F - n_C =$
	$n_e = 1.59062$	$\nu_e = 61.08$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.57714
n_r	706.5	1.58369
n_C	656.3	1.58539
$n_{C'}$	643.8	1.58586
n_{He-Ne}	632.8	1.58630
n_D	589.3	1.58824
n_d	587.6	1.58833
n_e	546.1	1.59062
n_F	486.1	1.59499
$n_{F'}$	480.0	1.59553
n_g	435.8	1.60014
n_h	404.7	1.60441
n_i	365.0	1.61164

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0016
$\Delta P_{g, F}$	-0.0039

その他の特性	
Other Properties	
ρ (g/cm ³)	2.83

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.3068	$P'_{d, C'}$	0.2557
$P_{e, d}$	0.2385	$P'_{e, d}$	0.2368
$P_{g, F}$	0.5374	$P'_{g, F'}$	0.4775

化学的安定性	
Chemical Properties	
	Grade
RC(S)	2
RA(S)	3
D_w	3
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	515
T_S (°C)	560
$T_{10}^{14.5}$ (°C)	471
T_{10}^{13} (°C)	499
$T_{10}^{7.6}$ (°C)	605
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	72
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	93
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	628
F_A	125
E (10 ⁷ Pa)	9767
G (10 ⁷ Pa)	3958
μ	0.234
B (10 ⁻¹² /Pa)	2.08

屈折率温度係数定数	
Constants of dn/dt	
D_0	1.68E-06
D_1	9.68E-09
D_2	-2.00E-11
E_0	5.34E-07
E_1	1.41E-09
λ_{TK} (μm)	0.172

内部透過率	
Internal Transmittance	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	2.5	3.0	3.1	3.2	3.4	3.5
-20~0	2.3	2.8	2.9	3.3	3.5	3.7
0~20	2.5	2.8	3.2	3.4	3.5	3.8
20~40	2.3	3.1	3.0	3.2	3.7	4.6
40~60	2.6	3.0	3.1	3.1	3.9	3.9
60~80	3.1	3.3	3.4	3.4	3.8	3.9

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

on Code
35/30
100

--

D-LaK6S 694531	$n_d =$ 1.69384	$v_d =$ 53.13
	$n_e =$ 1.69695	$v_e =$ 52.90

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.67924
n_T	706.5	1.68763
n_C	656.3	1.68988
$n_{C'}$	643.8	1.69051
n_{He-Ne}	632.8	1.69110
n_D	589.3	1.69372
n_d	587.6	1.69384
n_e	546.1	1.69695
n_F	486.1	1.70294
$n_{F'}$	480.0	1.70368
n_g	435.8	1.71008
n_h	404.7	1.71604
n_i	365.0	1.72624

色散公式定数	
Constants of Dispersion	
Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0024
$\Delta P_{g, F}$	-0.0082

その他の特性	
Other Properties	
ρ (g/cm ³)	3.50

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.3034	$P'_{d, C'}$	0.2529
$P_{e, d}$	0.2383	$P'_{e, d}$	0.2362
$P_{g, F}$	0.5470	$P'_{g, F'}$	0.4855

化学的安定性	
Chemical Properties	
	Grade
RC (S)	1
RA (S)	3
D_w	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	522
T_S (°C)	560
$T_{10}^{14.5}$ (°C)	485
T_{10}^{13} (°C)	513
$T_{10}^{7.6}$ (°C)	616
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	75
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	95
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	665
F_A	138
E (10 ⁷ Pa)	11369
G (10 ⁷ Pa)	4445
μ	0.279
B (10 ⁻¹² /Pa)	1.89

屈折率温度係数定数	
Constants of dn/dt	
D_0	1.33E-06
D_1	1.27E-08
D_2	-2.36E-11
E_0	5.62E-07
E_1	7.08E-10
λ_{TK} (μm)	0.199

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	2.4	2.9	3.0	3.2	3.7	4.0
-20~0	2.4	3.0	3.3	3.5	3.8	4.3
0~20	2.5	3.1	3.3	3.6	3.9	4.3
20~40	2.6	3.2	3.5	3.7	4.2	4.5
40~60	2.7	3.3	3.5	3.7	4.3	4.7
60~80	2.8	3.3	3.5	3.7	4.3	4.9

t

セリンス光学ガラスデータベース

Salice Optical Glass Products Database

$n_F - n_C =$	0.01306
$n_{F'} - n_{C'} =$	0.01318

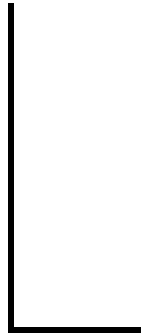
备注
Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.840	0.710
2200	0.960	0.922
2000	0.987	0.974
1800	0.998	0.996
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.997
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.997	0.994
480	0.995	0.990
460	0.993	0.987
440	0.991	0.983
420	0.990	0.980
400	0.988	0.977
390	0.987	0.974
380	0.983	0.966
370	0.974	0.949
360	0.958	0.918
350	0.933	0.870
340	0.883	0.780
330	0.800	0.640
320	0.650	0.430
310	0.400	0.160
300	0.120	0.010
290		
280		

退火速率
-4
°C/h

着色度

Coloration Code	
λ_{80}/λ_5	36/31
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	135



D-LaK6S-25 693531	$n_d = 1.69281$	$\nu_d = 53.05$	$n_F - n_C =$
	$n_e = 1.69592$	$\nu_e = 52.82$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.67821
n_r	706.5	1.68660
n_C	656.3	1.68885
$n_{C'}$	643.8	1.68948
n_{He-Ne}	632.8	1.69007
n_D	589.3	1.69269
n_d	587.6	1.69281
n_e	546.1	1.69592
n_F	486.1	1.70191
$n_{F'}$	480.0	1.70265
n_g	435.8	1.70905
n_h	404.7	1.71501
n_i	365.0	1.72521

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0024
$\Delta P_{g, F}$	-0.0083

その他の特性	
Other Properties	
ρ (g/cm ³)	3.50

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3034	$P'_{d,C'}$	0.2529
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2362
$P_{g,F}$	0.5470	$P'_{g,F'}$	0.4855

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	522
T_S (°C)	560
$T_{10}^{14.5}$ (°C)	485
T_{10}^{13} (°C)	513
$T_{10}^{7.6}$ (°C)	616
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	75
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	95
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	665
F_A	138
E (10 ⁷ Pa)	11369
G (10 ⁷ Pa)	4445
μ	0.279
B (10 ⁻¹² /Pa)	1.89

屈折率温度係数定数	
Constants of dn/dt	
D_0	1.33E-06
D_1	1.27E-08
D_2	-2.36E-11
E_0	5.62E-07
E_1	7.08E-10
λ_{TK} (μm)	0.199

内部透	
Internal Tra	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	2.4	2.9	3.0	3.2	3.7	4.0
-20~0	2.4	3.0	3.3	3.5	3.8	4.3
0~20	2.5	3.1	3.3	3.6	3.9	4.3
20~40	2.6	3.2	3.5	3.7	4.2	4.5
40~60	2.7	3.3	3.5	3.7	4.3	4.7
60~80	2.8	3.3	3.5	3.7	4.3	4.9

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.01306	
0.01318	

备注
Note

透過比	
Transmittance	
τ 5mm	τ 10mm
0.840	0.710
0.960	0.922
0.987	0.974
0.998	0.996
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.998	0.997
0.998	0.996
0.998	0.996
0.998	0.996
0.998	0.996
0.997	0.994
0.995	0.990
0.993	0.987
0.991	0.983
0.990	0.980
0.988	0.977
0.987	0.974
0.983	0.966
0.974	0.949
0.958	0.918
0.933	0.870
0.883	0.780
0.800	0.640
0.650	0.430
0.400	0.160
0.120	0.010

退火
速率
-25
°C/h

度

on Code
36/31
135

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D-LaF53S 743493	$n_d = 1.74330$	$\nu_d = 49.33$	$n_F - n_C =$
	$n_e = 1.74689$	$\nu_e = 49.08$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.72682
n_r	706.5	1.73619
n_C	656.3	1.73876
$n_{C'}$	643.8	1.73948
n_{He-Ne}	632.8	1.74015
n_D	589.3	1.74317
n_d	587.6	1.74330
n_e	546.1	1.74689
n_F	486.1	1.75383
$n_{F'}$	480.0	1.75469
n_g	435.8	1.76216
n_h	404.7	1.76914
n_i	365.0	1.78117

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0024
$\Delta P_{g, F}$	-0.0089

その他の特性	
Other Properties	
ρ (g/cm ³)	4.26

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3015	$P'_{d,C'}$	0.2512
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2358
$P_{g,F}$	0.5528	$P'_{g,F'}$	0.4903

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	557
T_S (°C)	590
$T_{10}^{14.5}$ (°C)	513
T_{10}^{13} (°C)	538
$T_{10}^{7.6}$ (°C)	641
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	56
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	72
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	673
F_A	101
E (10 ⁷ Pa)	11978
G (10 ⁷ Pa)	4614
μ	0.298
B (10 ⁻¹² /Pa)	2.20

屈折率温度係数定数	
Constants of dn/dt	
D_0	7.67E-06
D_1	2.36E-08
D_2	-1.95E-10
E_0	6.35E-07
E_1	3.67E-10
λ_{TK} (μm)	0.208

内部透過率	
Internal Transmittance	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	4.8	5.3	5.7	5.8	6.0	6.6
-20~0	5.8	6.4	6.8	7.2	7.5	7.9
0~20	6.0	6.6	7.2	7.3	8.2	8.9
20~40	6.4	7.2	7.4	7.5	8.3	9.0
40~60	6.6	7.3	7.6	7.6	8.5	9.1
60~80	7.0	7.4	7.6	7.9	8.5	9.3

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.01507	
0.01522	

备注
Note

透過比	
transmittance	
τ 5mm	τ 10mm
0.825	0.681
0.953	0.909
0.982	0.964
0.994	0.988
0.998	0.996
0.998	0.997
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.998	0.997
0.998	0.996
0.998	0.996
0.997	0.995
0.997	0.995
0.997	0.995
0.996	0.993
0.995	0.991
0.993	0.987
0.991	0.983
0.986	0.973
0.981	0.962
0.970	0.940
0.948	0.898
0.908	0.824
0.847	0.717
0.750	0.563
0.628	0.394
0.486	0.236
0.316	0.100
0.214	0.046
0.145	0.021

退火
 速率
 -4
 °C/h

色度

on Code
37/30
145

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D-LaF53S-25 742493	$n_d = 1.74210$	$\nu_d = 49.25$	$n_F - n_C =$
	$n_e = 1.74569$	$\nu_e = 49.00$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.72562
n_r	706.5	1.73499
n_C	656.3	1.73756
$n_{C'}$	643.8	1.73828
n_{He-Ne}	632.8	1.73895
n_D	589.3	1.74197
n_d	587.6	1.74210
n_e	546.1	1.74569
n_F	486.1	1.75263
$n_{F'}$	480.0	1.75349
n_g	435.8	1.76096
n_h	404.7	1.76794
n_i	365.0	1.77997

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0024
$\Delta P_{g, F}$	-0.0090

その他の特性	
Other Properties	
ρ (g/cm ³)	4.26

相対的な部分分散			
Relative Partial Dispersions			
$P_{d,C}$	0.3015	$P'_{d,C'}$	0.2513
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2358
$P_{g,F}$	0.5528	$P'_{g,F'}$	0.4903

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	557
T_S (°C)	590
$T_{10}^{14.5}$ (°C)	513
T_{10}^{13} (°C)	538
$T_{10}^{7.6}$ (°C)	641
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	56
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	72
λ (W/m·K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	673
F_A	101
E (10 ⁷ Pa)	11978
G (10 ⁷ Pa)	4614
μ	0.298
B (10 ⁻¹² /Pa)	2.20

屈折率温度係数定数	
Constants of dn/dt	
D_0	7.67E-06
D_1	2.36E-08
D_2	-1.95E-10
E_0	6.35E-07
E_1	3.67E-10
λ_{TK} (μm)	0.208

内部透	
Internal Tra	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	4.8	5.3	5.7	5.8	6.0	6.6
-20~0	5.8	6.4	6.8	7.2	7.5	7.9
0~20	6.0	6.6	7.2	7.3	8.2	8.9
20~40	6.4	7.2	7.4	7.5	8.3	9.0
40~60	6.6	7.3	7.6	7.6	8.5	9.1
60~80	7.0	7.4	7.6	7.9	8.5	9.3

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.01507	
0.01522	

备注
Note

透過比	
Transmittance	
τ 5mm	τ 10mm
0.825	0.681
0.953	0.909
0.982	0.964
0.994	0.988
0.998	0.996
0.998	0.997
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.998	0.997
0.998	0.996
0.998	0.996
0.997	0.995
0.997	0.995
0.997	0.995
0.996	0.993
0.995	0.991
0.993	0.987
0.991	0.983
0.986	0.973
0.981	0.962
0.970	0.940
0.948	0.898
0.908	0.824
0.847	0.717
0.750	0.563
0.628	0.394
0.486	0.236
0.316	0.100
0.214	0.046
0.145	0.021

退火
速率
-25
°C/h

度

on Code
37/30
145

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D-ZLaF52S	810410	$n_d = 1.81000$	$\nu_d = 40.99$	$n_F - n_C =$
		$n_e = 1.81469$	$\nu_e = 40.74$	$n_{F'} - n_{C'} =$

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.78943
n_r	706.5	1.80087
n_C	656.3	1.80413
$n_{C'}$	643.8	1.80506
n_{He-Ne}	632.8	1.80593
n_D	589.3	1.80983
n_d	587.6	1.81000
n_e	546.1	1.81469
n_F	486.1	1.82389
$n_{F'}$	480.0	1.82506
n_g	435.8	1.83516
n_h	404.7	1.84478
n_i	365.0	1.86180

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0016
$\Delta P_{g, F}$	-0.0060

その他の特性	
Other Properties	
ρ (g/cm ³)	4.56

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.2969	$P'_{d, C'}$	0.2471
$P_{e, d}$	0.2375	$P'_{e, d}$	0.2347
$P_{g, F}$	0.5699	$P'_{g, F'}$	0.5049

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_W	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	546
T_S (°C)	582
$T_{10}^{14.5}$ (°C)	506
T_{10}^{13} (°C)	538
$T_{10}^{7.6}$ (°C)	644
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	66
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	83
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	662
F_A	109
E (10 ⁷ Pa)	11506
G (10 ⁷ Pa)	4427
μ	0.3
B (10 ⁻¹² /Pa)	1.98

屈折率温度係数定数	
Constants of dn/dt	
D_0	5.23E-06
D_1	1.56E-08
D_2	-3.55E-11
E_0	8.33E-07
E_1	7.37E-10
λ_{TK} (μm)	0.217

内部透	
Internal Tra	
	λ (nm)
	2400
	2200
	2000
	1800
	1600
	1400
	1200
	1060
	1000
	950
	900
	850
	800
	700
	650
	600
	550
	500
	480
	460
	440
	420
	400
	390
	380
	370
	360
	350
	340
	330
	320
	310
	300
	290
	280

屈折率温度係数

着色

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	5.0	6.0	6.2	6.6	7.5	8.3
-20~0	5.1	6.0	6.4	6.7	7.5	8.5
0~20	5.3	6.1	6.7	6.9	7.7	8.6
20~40	5.5	6.4	7.0	7.3	8.1	8.9
40~60	5.7	6.8	7.1	7.4	8.4	9.4
60~80	5.7	6.9	7.2	7.5	8.5	9.6

Colorati
λ_{80}/λ_5
退火增值系数
Annealing Increasing
Coefficient of n_d
β

ガラスデータベース

Optical Glass Products Database

0.01976	
0.02000	

备注
Note

透過比	
Transmittance	
τ 5mm	τ 10mm
0.870	0.750
0.961	0.924
0.984	0.969
0.996	0.992
0.999	0.998
0.998	0.996
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.999	0.998
0.998	0.997
0.998	0.996
0.997	0.995
0.997	0.995
0.995	0.990
0.992	0.985
0.990	0.980
0.986	0.972
0.980	0.961
0.968	0.937
0.955	0.913
0.933	0.870
0.890	0.790
0.800	0.640
0.610	0.380
0.280	0.080

退火
速率
-4
°C/h

度

on Code
40/34
140

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D-ZLaF52S ₋₂₅ 809410	$n_d =$ 1.80882	$v_d =$ 40.97
	$n_e =$ 1.81351	$v_e =$ 40.71

屈折率		
Refractive Indices		
	λ (nm)	
n_t	1014.0	1.78826
n_T	706.5	1.79970
n_C	656.3	1.80296
$n_{C'}$	643.8	1.80388
n_{He-Ne}	632.8	1.80475
n_D	589.3	1.80865
n_d	587.6	1.80882
n_e	546.1	1.81351
n_F	486.1	1.82270
$n_{F'}$	480.0	1.82386
n_g	435.8	1.83396
n_h	404.7	1.84357
n_i	365.0	1.86058

色散公式定数	
Constants of Dispersion Formula	
A_0	
A_1	
A_2	
A_3	
A_4	
A_5	

基準線からの相対的な部分分散の値	
Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F, e}$	-0.0016
$\Delta P_{g, F}$	-0.0058

その他の特性	
Other Properties	
ρ (g/cm ³)	4.56

相対的な部分分散			
Relative Partial Dispersions			
$P_{d, C}$	0.2968	$P'_{d, C'}$	0.2471
$P_{e, d}$	0.2375	$P'_{e, d}$	0.2346
$P_{g, F}$	0.5701	$P'_{g, F'}$	0.5050

化学的安定性	
Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D_w	1
D_A	6

熱特性	
Thermal Properties	
T_g (°C)	546
T_S (°C)	582
$T_{10}^{14.5}$ (°C)	506
T_{10}^{13} (°C)	538
$T_{10}^{7.6}$ (°C)	644
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	66
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	83
λ (W/m · K)	

機械特性	
Mechanical Properties	
H_K (10 ⁷ Pa)	662
F_A	109
E (10 ⁷ Pa)	11506
G (10 ⁷ Pa)	4427
μ	0.3
B (10 ⁻¹² /Pa)	1.98

屈折率温度係数定数	
Constants of dn/dt	
D_0	5.23E-06
D_1	1.56E-08
D_2	-3.55E-11
E_0	8.33E-07
E_1	7.37E-10
λ_{TK} (μm)	0.217

屈折率温度係数

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)					
	t	C'	d	e	F'	g
-40~-20	5.0	6.0	6.2	6.6	7.5	8.3
-20~0	5.1	6.0	6.4	6.7	7.5	8.5
0~20	5.3	6.1	6.7	6.9	7.7	8.6
20~40	5.5	6.4	7.0	7.3	8.1	8.9
40~60	5.7	6.8	7.1	7.4	8.4	9.4
60~80	5.7	6.9	7.2	7.5	8.5	9.6

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セリンス光学ガラスデータベース

Salice Optical Glass Products Database

$n_F - n_C =$	0.01974
$n_{F'} - n_{C'} =$	0.01998

备注
Note

内部透過比		
Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
2400	0.870	0.750
2200	0.961	0.924
2000	0.984	0.969
1800	0.996	0.992
1600	0.999	0.998
1400	0.998	0.996
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.996
600	0.997	0.995
550	0.997	0.995
500	0.995	0.990
480	0.992	0.985
460	0.990	0.980
440	0.986	0.972
420	0.980	0.961
400	0.968	0.937
390	0.955	0.913
380	0.933	0.870
370	0.890	0.790
360	0.800	0.640
350	0.610	0.380
340	0.280	0.080
330		
320		
310		
300		
290		
280		

退火速率
-25
°C/h

着色度

Coloration Code	
λ_{80}/λ_5	40/34
退火增值系数	
Annealing Increasing	
Coefficient of n_d	
β	140

