H-LaK51A 697555

$n_d = 1.69680$	$\upsilon_d = 55.46$	$n_F - n_C = 0.012564$
$n_e = 1.69980$	$\upsilon_e = 55.25$	$n_{F'} - n_{C'} = 0.012667$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	
n_{1064}	1064.00	1.68155
n_t	1013.98	1.68252
n_s	852.11	1.68615
$n_{A'}$	768.19	1.68860
n_r	706.52	1.69080
n_C	656.27	1.69297
$n_{C'}$	643.85	1.69358
n_{He-Ne}	632.80	1.69417
n_D	589.29	1.69670
n_d	587.56	1.69680
n_e	546.07	1.69980
n_F	486.13	1.70553
$n_{F'}$	479.99	1.70625
n_g	435.84	1.71234
n_h	404.66	1.71799
n_i	365.01	1.72764

Relative Partial Dispersion	
$P_{d,C}$	0.3048
$P_{e,d}$	0.2388
$P_{g,F}$	0.5420
$P'_{d,c'}$	0.2542
$P'_{e,d}$	0.2368
$P'_{g,F'}$	0.4808

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0035
$\Delta P_{g,F}$	-0.0095
$\Delta P_{C,t}$	0.0229
$\Delta P_{C,s}$	0.0093

Thermal Properties	
Tg (℃)	648
Ts (℃)	675
$T_{10}^{14.5}$ (℃)	589
T_{10}^{13} (℃)	624
$\alpha_{-50/80℃}$ (10^{-7}/K)	58
$\alpha_{100/300℃}$ (10^{-7}/K)	75
λ (W/(m·K))	0.92

Mechanical Properties	
HK (10^7Pa)	608
F_A	119
E (GPa)	111.4
G (GPa)	43.3
μ	0.288
σ_b (MPa)	107.0
B (10^{-12}/Pa)	

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D_W	1
D_A	3
R_{OH} (S)	1
RP (S)	2

Expansion Coefficient α ($\times 10^{-7}$/K)	
℃	α
-50/-40	51
-40/-30	52
-30/-20	53
-20/-10	55
-10/0	56
0/10	57
10/20	58
20/30	59
30/40	60
40/50	61
50/60	62
60/70	63
70/80	64
80/90	64
90/100	65
100/110	66
110/120	67
120/130	68
130/140	70
140/150	71
150/160	72

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.742	0.550
2200	0.904	0.817
2000	0.980	0.960
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	0.999	0.998
750	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	0.998	0.997
460	0.997	0.995
440	0.996	0.993
420	0.995	0.990
400	0.993	0.986
390	0.990	0.981
380	0.986	0.973
370	0.979	0.959
360	0.966	0.933
350	0.946	0.895
340	0.915	0.838
330	0.872	0.760
320	0.812	0.659
310	0.735	0.540
300	0.643	0.413
290	0.537	0.288
280	0.405	0.164

Constants of Dispersion Formula	
A_0	2.82835724E+00
A_1	-1.49967196E-02
A_2	1.78960905E-02
A_3	5.80447845E-04
A_4	-3.68202672E-05
A_5	2.18285424E-06

Density	
ρ (g/cm^3)	3.65

Solarization	
△λ (%)	-3.5

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative ($\times 10^{-6}$ / ℃)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	1.6	2.0	2.1	2.2	2.4	2.6	3.0	3.1	3.2	3.5
-40 ~ -20	1.6	2.0	2.2	2.3	2.4	2.7	3.0	3.1	3.2	3.6
-20 ~ 0	1.6	2.2	2.3	2.3	2.4	2.8	3.2	3.3	3.3	3.8
0 ~ 20	1.7	2.3	2.4	2.5	2.5	2.9	3.2	3.3	3.3	4.0
20 ~ 40	1.7	2.3	2.5	2.6	2.7	3.1	3.3	3.4	3.4	4.2
40 ~ 60	1.8	2.4	2.7	2.7	2.8	3.1	3.4	3.5	3.5	4.3
60 ~ 80	1.8	2.4	2.8	2.8	2.9	3.3	3.6	3.7	3.8	4.6
80 ~ 100	2.0	2.6	3.0	3.1	3.2	3.4	3.8	3.9	3.9	4.8
100 ~ 120	2.1	2.7	3.2	3.2	3.2	3.4	4.0	4.1	4.1	4.9
120 ~ 140	2.1	2.8	3.2	3.2	3.2	3.5	4.0	4.2	4.3	5.1
140 ~ 160	2.2	2.9	3.3	3.4	3.4	3.6	4.2	4.4	4.4	5.2

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/270
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	335/273

Constants of dn/dt		
D_0	D_1	D_2
-2.78E-07	1.33E-08	-2.35E-11
E_0	E_1	λ_{TK}
8.64E-07	8.98E-10	4.82E-15