

H-LaK51A	697555	$n_d = 1.69680$	$v_d = 55.46$	$n_F - n_C = 0.012564$
		$n_e = 1.69980$	$v_e = 55.25$	$n_F - n_C = 0.012667$

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_f	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

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _w	1
D _A	3
R _{OH} (S)	1
RP (S)	2
CR	1

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
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

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

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	48
-40/-30	50
-30/-20	50
-20/-10	52
-10/0	53
0/10	55
10/20	56
20/30	56
30/40	56
40/50	59
50/60	59
60/70	60
70/80	60
80/90	63
90/100	64
100/110	64
110/120	65
120/130	65
130/140	67
140/150	69
150/160	71

Thermal Properties	
T _g ($^{\circ}C$)	648
T _s ($^{\circ}C$)	675
T ₁₀ ^{14.5} ($^{\circ}C$)	589
T ₁₀ ¹³ ($^{\circ}C$)	624
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	55
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	72
λ (W/(m K))	0.92

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

Mechanical Properties	
HK (10^7 Pa)	608
F _A	119
E (GPa)	111.4
G (GPa)	43.3
μ	0.288
σ_b (MPa)	107
B (10^{-12} /Pa)	1.75

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.65	-3.5

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6}/^{\circ}C$)									
	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