

H-LaK51	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	1.65840
n_{1970}	1970.09	1.66575
n_{1530}	1529.58	1.67368
n_{1129}	1128.64	1.68042
n_{1064}	1064.00	1.68159
n_t	1013.98	1.68254
n_s	852.11	1.68616
$n_{A'}$	768.19	1.68859
n_f	706.52	1.69079
n_C	656.27	1.69297
$n_{C'}$	643.85	1.69358
n_{He-Ne}	632.80	1.69415
n_D	589.29	1.69669
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	1.71800
n_i	365.01	1.72765

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	0.757	0.575
2200	0.923	0.846
2000	0.986	0.960
1800	0.999	0.993
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	0.999	0.998
460	0.999	0.998
440	0.999	0.998
420	0.997	0.993
400	0.992	0.987
390	0.990	0.980
380	0.985	0.971
370	0.975	0.951
360	0.957	0.918
350	0.928	0.862
340	0.885	0.787
330	0.827	0.683
320	0.748	0.561
310	0.643	0.417
300	0.553	0.308
290	0.451	0.206
280	0.328	0.110

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0035
$\Delta P_{g,F}$	-0.0095
$\Delta P_{C,t}$	0.0213
$\Delta P_{C,s}$	0.0085

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	52
-40/-30	53
-30/-20	54
-20/-10	55
-10/0	56
0/10	56
10/20	57
20/30	57
30/40	58
40/50	58
50/60	58
60/70	59
70/80	59
80/90	59
90/100	60
100/110	61
110/120	61
120/130	62
130/140	63
140/150	64
150/160	65

Thermal Properties	
T _g ($^{\circ}C$)	650
T _s ($^{\circ}C$)	676
T ₁₀ ^{14.5} ($^{\circ}C$)	591
T ₁₀ ¹³ ($^{\circ}C$)	625
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	55
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	71
λ (W/(m K))	0.62

Constants of Dispersion Formula	
A ₀	2.82930828E+00
A ₁	-1.51991877E-02
A ₂	1.69710302E-02
A ₃	9.14047795E-04
A ₄	-8.69746514E-05
A ₅	4.85293775E-06

Mechanical Properties	
HK (10^7 Pa)	680
F _A	85
E (GPa)	110.2
G (GPa)	43.9
μ	0.255
σ_b (MPa)	64
B (10^{-12} /Pa)	1.70

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.69	-3.7

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	3.9	4.1	4.2	4.3	4.4	4.5	4.7	5.0	5.0	5.4
-40 ~ -20	3.9	4.2	4.3	4.3	4.4	4.5	4.7	5.1	5.1	5.4
-20 ~ 0	3.9	4.2	4.3	4.3	4.4	4.5	4.7	5.1	5.2	5.4
0 ~ 20	3.9	4.2	4.3	4.3	4.4	4.5	4.7	5.1	5.2	5.4
20 ~ 40	3.9	4.2	4.4	4.4	4.5	4.5	4.7	5.2	5.3	5.5
40 ~ 60	4.1	4.4	4.5	4.6	4.7	4.7	4.9	5.4	5.4	5.8
60 ~ 80	4.1	4.4	4.6	4.7	4.6	4.9	5.0	5.5	5.5	5.9
80 ~ 100	4.2	4.4	4.7	4.8	4.8	5.0	5.0	5.5	5.5	6.0
100 ~ 120	4.2	4.5	4.7	4.8	4.8	5.0	5.1	5.5	5.6	6.0
120 ~ 140	4.2	4.5	4.8	4.8	4.8	5.1	5.1	5.5	5.6	6.1
140 ~ 160	4.3	4.4	4.8	4.9	4.9	5.1	5.1	5.6	5.6	6.1

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/280
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	342/277

Constants of dn/dt		
D ₀	D ₁	D ₂
4.02E-06	1.29E-08	-2.62E-11
E ₀	E ₁	λ_{TK}
4.49E-07	2.06E-10	2.05E-01