

H-LaK50A 652584	$n_d = 1.65160$	$v_d = 58.40$	$n_F - n_C = 0.011157$
	$n_e = 1.65426$	$v_e = 58.15$	$n_{F'} - n_{C'} = 0.011251$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.61677
n_{1970}	1970.09	1.62349
n_{1530}	1529.58	1.63071
n_{1129}	1128.64	1.63688
n_{1064}	1064.00	1.63795
n_t	1013.98	1.63882
n_s	852.11	1.64210
$n_{A'}$	768.19	1.64428
n_r	706.52	1.64625
n_C	656.27	1.64820
$n_{C'}$	643.85	1.64874
n_{He-Ne}	632.80	1.64924
n_D	589.29	1.65150
n_d	587.56	1.65160
n_e	546.07	1.65426
n_F	486.13	1.65935
$n_{F'}$	479.99	1.65999
n_g	435.84	1.66541
n_h	404.66	1.67043
n_i	365.01	1.67894

Constants of Dispersion Formula	
A_0	2.68404972E+00
A_1	-1.34999767E-02
A_2	1.56364220E-02
A_3	3.91605064E-04
A_4	-8.87810681E-06
A_5	2.90663584E-07

Density	
ρ (g/cm ³)	3.48

Solarization	
$\Delta\lambda$ (%)	-2.6

Relative Partial Dispersion	
$P_{d,C}$	0.3047
$P_{e,d}$	0.2384
$P_{g,F}$	0.5432
$P'_{d,c'}$	0.2542
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4817

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0017
$\Delta P_{g,F}$	-0.0034
$\Delta P_{C,t}$	0.0176
$\Delta P_{C,s}$	0.0062

Thermal Properties	
Tg (°C)	619
Ts (°C)	652
T ₁₀ ^{14.5} (°C)	570
T ₁₀ ¹³ (°C)	615
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	60
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	77
λ (W/(m·K))	0.95

Mechanical Properties	
HK (10 ⁷ Pa)	594
F _A	105
E (GPa)	102.9
G (GPa)	39.5
μ	0.302
σ_b (MPa)	76.1
B (10 ⁻¹² /Pa)	1.85

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _W	3
D _A	4
R _{OH} (S)	1
RP (S)	3

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	57
-40/-30	59
-30/-20	60
-20/-10	61
-10/0	62
0/10	63
10/20	64
20/30	64
30/40	65
40/50	65
50/60	66
60/70	66
70/80	67
80/90	68
90/100	68
100/110	69
110/120	70
120/130	71
130/140	73
140/150	74
150/160	75

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.840	0.706
2200	0.954	0.910
2000	0.991	0.982
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
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	0.997	0.996
460	0.995	0.994
440	0.993	0.992
420	0.991	0.990
400	0.989	0.988
390	0.986	0.985
380	0.982	0.979
370	0.974	0.968
360	0.969	0.949
350	0.948	0.916
340	0.920	0.863
330	0.881	0.783
320	0.816	0.672
310	0.725	0.531
300	0.607	0.377
290	0.482	0.241
280	0.357	0.136

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	350/270
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	332/270

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 ⁻⁶ / °C)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	2.7	2.9	3.1	3.2	3.2	3.3	3.4	3.6	3.6	4.0
-40 ~ -20	2.7	2.9	3.2	3.3	3.3	3.3	3.5	3.7	3.7	4.1
-20 ~ 0	2.8	3.0	3.3	3.3	3.3	3.3	3.6	3.7	3.8	4.2
0 ~ 20	2.8	3.0	3.3	3.3	3.3	3.3	3.6	3.8	3.9	4.2
20 ~ 40	2.9	3.1	3.3	3.3	3.3	3.4	3.6	3.9	4.0	4.3
40 ~ 60	3.0	3.2	3.3	3.4	3.4	3.5	3.8	4.0	4.1	4.4
60 ~ 80	3.0	3.3	3.4	3.5	3.5	3.7	3.8	4.1	4.2	4.5
80 ~ 100	3.0	3.3	3.5	3.6	3.6	3.8	3.9	4.2	4.3	4.6
100 ~ 120	3.2	3.4	3.6	3.6	3.6	3.9	4.0	4.3	4.4	4.8
120 ~ 140	3.2	3.4	3.6	3.7	3.7	4.0	4.1	4.4	4.5	5.0
140 ~ 160	3.2	3.5	3.7	3.7	3.8	4.1	4.2	4.5	4.6	5.2

Constants of dn/dt		
D ₀	D ₁	D ₂
2.25E-06	1.25E-08	-2.25E-11
E ₀	E ₁	λ_{TK}
4.23E-07	5.63E-10	1.91E-01