

H-LaK53B	755523	$n_d = 1.75500$	$v_d = 52.32$	$n_F - n_C = 0.014430$
		$n_e = 1.75844$	$v_e = 52.09$	$n_{F'} - n_{C'} = 0.014561$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	1.73669
n_{1064}	1064.00	1.73793
n_t	1013.98	1.73896
n_s	852.11	1.74293
$n_{A'}$	768.19	1.74567
n_r	706.52	1.74815
n_C	656.27	1.75063
$n_{C'}$	643.85	1.75132
n_{He-Ne}	632.80	1.75199
n_D	589.29	1.75487
n_d	587.56	1.75500
n_e	546.07	1.75844
n_F	486.13	1.76506
$n_{F'}$	479.99	1.76588
n_g	435.84	1.77296
n_h	404.66	1.77955
n_i	365.01	1.79083

Constants of Dispersion Formula	
A_0	3.01608135E+00
A_1	-1.42847622E-02
A_2	2.30284242E-02
A_3	1.69148291E-04
A_4	3.56310545E-05
A_5	-1.43259924E-06

Density		Solarization	
ρ (g/cm ³)	4.18	$\Delta\lambda$ (%)	-3.0

Relative Partial Dispersion	
$P_{d,C}$	0.3028
$P_{e,d}$	0.2384
$P_{g,F}$	0.5475
$P'_{d,c'}$	0.2527
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4862

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0026
$\Delta P_{g,F}$	-0.0092
$\Delta P_{C,t}$	0.0151
$\Delta P_{C,s}$	0.0076

Thermal Properties	
Tg (°C)	686
Ts (°C)	708
T ₁₀ ^{14.5} (°C)	622
T ₁₀ ¹³ (°C)	643
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	59
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	75
λ (W/(m·K))	0.90

Mechanical Properties	
HK (10 ⁷ Pa)	635
F _A	65
E (GPa)	122.2
G (GPa)	46.9
μ	0.303
σ_b (MPa)	91.0
B (10 ⁻¹² /Pa)	1.30

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	51
-40/-30	53
-30/-20	54
-20/-10	55
-10/0	55
0/10	57
10/20	57
20/30	58
30/40	59
40/50	59
50/60	60
60/70	60
70/80	60
80/90	60
90/100	60
100/110	62
110/120	62
120/130	64
130/140	65
140/150	65
150/160	67

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.799	0.638
2200	0.928	0.862
2000	0.975	0.950
1800	0.990	0.981
1600	0.996	0.993
1400	0.996	0.992
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	0.998	0.996
480	0.997	0.994
460	0.996	0.992
440	0.994	0.989
420	0.993	0.986
400	0.991	0.982
390	0.988	0.977
380	0.985	0.970
370	0.977	0.955
360	0.967	0.935
350	0.949	0.901
340	0.920	0.847
330	0.882	0.778
320	0.831	0.690
310	0.764	0.584
300	0.690	0.476
290	0.594	0.353
280	0.447	0.200

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	2.1	2.4	2.7	2.8	3.0	3.1	3.2	3.4	3.6	3.9
-40 ~ -20	2.1	2.5	2.8	2.9	3.0	3.1	3.3	3.6	3.7	4.0
-20 ~ 0	2.2	2.7	2.9	3.0	3.1	3.2	3.5	3.7	3.7	4.2
0 ~ 20	2.2	2.9	3.0	3.0	3.2	3.4	3.6	3.8	3.9	4.3
20 ~ 40	2.2	3.0	3.1	3.2	3.3	3.5	3.8	4.0	4.1	4.4
40 ~ 60	2.3	3.2	3.3	3.4	3.5	3.6	3.8	4.1	4.3	4.5
60 ~ 80	2.5	3.2	3.4	3.5	3.7	3.9	4.0	4.2	4.4	4.6
80 ~ 100	2.6	3.3	3.6	3.6	3.7	4.1	4.2	4.3	4.6	4.7
100 ~ 120	2.7	3.5	3.7	3.8	4.0	4.3	4.3	4.4	4.7	4.9
120 ~ 140	2.8	3.7	3.8	3.9	4.0	4.3	4.5	4.7	4.8	5.1
140 ~ 160	2.8	3.7	3.8	3.9	4.1	4.4	4.6	4.8	4.9	5.3

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/270
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	333/272

Constants of dn/dt		
D ₀	D ₁	D ₂
9.52E-07	1.46E-08	-2.48E-11
E ₀	E ₁	λ_{TK}
6.68E-07	3.49E-10	2.49E-09