

H-LaK77	775503	$n_d = 1.77536$	$v_d = 50.32$	$n_F - n_C = 0.015410$
		$n_e = 1.77902$	$v_e = 50.10$	$n_{F'} - n_{C'} = 0.015550$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	1.74890
n_{1129}	1128.64	1.75598
n_{1064}	1064.00	1.75728
n_t	1013.98	1.75836
n_s	852.11	1.76253
$n_{A'}$	768.19	1.76541
n_r	706.52	1.76805
n_C	656.27	1.77069
$n_{C'}$	643.85	1.77144
n_{He-Ne}	632.80	1.77213
n_D	589.29	1.77522
n_d	587.56	1.77536
n_e	546.07	1.77902
n_F	486.13	1.78610
$n_{F'}$	479.99	1.78699
n_g	435.84	1.79459
n_h	404.66	1.80168
n_i	365.01	1.81387

Constants of Dispersion Formula	
A_0	3.08315587E+00
A_1	-1.49460142E-02
A_2	2.43300964E-02
A_3	3.65640749E-04
A_4	1.42131183E-05
A_5	-8.23160850E-08

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.35	-2.9

Relative Partial Dispersion	
$P_{d,C}$	0.3030
$P_{e,d}$	0.2375
$P_{g,F}$	0.5509
$P'_{d,c'}$	0.2521
$P'_{e,d}$	0.2354
$P'_{g,F'}$	0.4887

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0030
$\Delta P_{g,F}$	-0.0091
$\Delta P_{C,t}$	0.0162
$\Delta P_{C,s}$	0.0084

Thermal Properties	
T_g (°C)	699
T_s (°C)	714
$T_{10}^{14.5}$ (°C)	625
T_{10}^{13} (°C)	670
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	62
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	76
λ (W/(m·K))	1.02

Mechanical Properties	
HK (10 ⁷ Pa)	728
F_A	115
E (GPa)	108.0
G (GPa)	41.6
μ	0.297
σ_b (MPa)	85.3
B (10 ⁻¹² /Pa)	1.20

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	52
-40/-30	54
-30/-20	56
-20/-10	57
-10/0	58
0/10	58
10/20	59
20/30	59
30/40	60
40/50	60
50/60	61
60/70	61
70/80	62
80/90	63
90/100	64
100/110	65
110/120	66
120/130	67
130/140	68
140/150	69
150/160	70

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.815	0.664
2200	0.948	0.899
2000	0.984	0.968
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	0.994
460	0.996	0.992
440	0.996	0.992
420	0.996	0.992
400	0.991	0.982
390	0.986	0.972
380	0.979	0.958
370	0.971	0.943
360	0.950	0.903
350	0.913	0.834
340	0.870	0.757
330	0.813	0.661
320	0.736	0.542
310	0.633	0.401
300	0.550	0.303
290	0.450	0.203
280	0.305	0.093

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	365/280
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	333/276

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	2.9	3.2	3.2	3.3	3.4	3.6	3.8	4.0	4.1	4.4
-40 ~ -20	3.0	3.2	3.4	3.5	3.6	3.7	3.7	4.0	4.1	4.6
-20 ~ 0	2.9	3.2	3.5	3.6	3.7	3.9	3.9	4.1	4.2	4.6
0 ~ 20	2.9	3.2	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.8
20 ~ 40	2.9	3.3	3.6	3.7	3.8	3.9	4.2	4.2	4.2	4.9
40 ~ 60	2.9	3.4	3.8	3.8	3.9	4.0	4.2	4.3	4.3	5.0
60 ~ 80	3.1	3.6	3.8	3.8	3.9	4.0	4.2	4.4	4.4	5.1
80 ~ 100	3.1	3.7	3.9	3.9	4.0	4.1	4.3	4.5	4.5	5.3
100 ~ 120	3.1	3.7	3.9	3.9	4.0	4.1	4.4	4.6	4.6	5.4
120 ~ 140	3.2	3.7	3.9	4.0	4.0	4.2	4.5	4.6	4.7	5.5
140 ~ 160	3.2	3.8	4.0	4.0	4.1	4.2	4.7	4.8	4.9	5.6

Constants of dn/dt		
D_0	D_1	D_2
1.90E-06	1.15E-08	-2.57E-11
E_0	E_1	λ_{TK}
5.50E-07	5.84E-10	6.74E-02