

H-LaK10	651559	$n_d = 1.65113$	$v_d = 55.89$	$n_F - n_C = 0.011650$
		$n_e = 1.65391$	$v_e = 55.62$	$n_{F'} - n_{C'} = 0.011757$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.61921
n_{1970}	1970.09	1.62487
n_{1530}	1529.58	1.63105
n_{1129}	1128.64	1.63650
n_{1064}	1064.00	1.63749
n_t	1013.98	1.63830
n_s	852.11	1.64144
$n_{A'}$	768.19	1.64361
n_r	706.52	1.64560
n_C	656.27	1.64760
$n_{C'}$	643.85	1.64816
n_{He-Ne}	632.80	1.64869
n_D	589.29	1.65103
n_d	587.56	1.65113
n_e	546.07	1.65391
n_F	486.13	1.65925
$n_{F'}$	479.99	1.65992
n_g	435.84	1.66558
n_h	404.66	1.67083
n_i	365.01	1.67985

Constants of Dispersion Formula	
A_0	2.68014719E+00
A_1	-1.13022222E-02
A_2	1.49971961E-02
A_3	1.08435000E-03
A_4	-1.25822106E-04
A_5	7.18648482E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.72	-4.0

Relative Partial Dispersion	
$P_{d,C}$	0.3030
$P_{e,d}$	0.2386
$P_{g,F}$	0.5433
$P'_{d,c'}$	0.2526
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4814

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0010
$\Delta P_{g,F}$	-0.0074
$\Delta P_{C,t}$	-0.0127
$\Delta P_{C,s}$	-0.0058

Thermal Properties	
Tg (°C)	656
Ts (°C)	687
T ₁₀ ^{14.5} (°C)	589
T ₁₀ ¹³ (°C)	629
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	67
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	82
λ (W/(m·K))	0.80

Mechanical Properties	
HK (10 ⁷ Pa)	552
F _A	170
E (GPa)	90.3
G (GPa)	34.4
μ	0.311
σ_b (MPa)	54.0
B (10 ⁻¹² /Pa)	1.90

Chemical Properties (grade)	
RC (S)	1
RA (S)	2
D _W	1
D _A	4
R _{OH} (S)	1
RP (S)	2

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	59
-40/-30	61
-30/-20	62
-20/-10	63
-10/0	63
0/10	64
10/20	65
20/30	65
30/40	66
40/50	67
50/60	68
60/70	68
70/80	69
80/90	69
90/100	70
100/110	71
110/120	72
120/130	73
130/140	74
140/150	75
150/160	76

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.891	0.794
2200	0.966	0.933
2000	0.990	0.980
1800	0.995	0.990
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	0.998	0.995
420	0.996	0.992
400	0.994	0.989
390	0.991	0.985
380	0.988	0.979
370	0.982	0.968
360	0.971	0.945
350	0.952	0.910
340	0.920	0.849
330	0.867	0.756
320	0.790	0.628
310	0.684	0.469
300	0.551	0.305
290	0.401	0.163
280	0.249	0.064

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	350/275
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	329/275

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	2.5	2.8	2.9	3.0	3.0	3.1	3.3	3.5	3.6	4.0
-40 ~ -20	2.5	2.7	2.8	2.9	2.9	3.1	3.3	3.5	3.6	4.0
-20 ~ 0	2.5	2.8	2.9	2.9	2.9	3.1	3.3	3.5	3.6	4.0
0 ~ 20	2.5	2.8	3.0	3.0	3.0	3.1	3.3	3.5	3.6	4.1
20 ~ 40	2.5	2.8	3.0	3.0	3.0	3.1	3.3	3.5	3.6	4.1
40 ~ 60	2.6	2.8	3.0	3.0	3.0	3.1	3.4	3.6	3.7	4.2
60 ~ 80	2.6	2.9	3.1	3.1	3.1	3.2	3.6	3.8	3.9	4.4
80 ~ 100	2.7	3.0	3.2	3.2	3.3	3.4	3.7	3.9	4.0	4.6
100 ~ 120	2.8	3.1	3.2	3.2	3.3	3.5	3.8	4.1	4.2	4.8
120 ~ 140	2.9	3.2	3.3	3.3	3.4	3.6	3.9	4.2	4.3	4.9
140 ~ 160	3.0	3.3	3.4	3.4	3.5	3.7	4.0	4.3	4.4	5.0

Constants of dn/dt		
D ₀	D ₁	D ₂
1.69E-06	1.16E-08	-1.39E-11
E ₀	E ₁	λ_{TK}
3.41E-07	4.23E-10	2.78E-01