

H-LaF1	694492	$n_d = 1.69362$	$v_d = 49.20$	$n_F - n_C = 0.014099$
		$n_e = 1.69696$	$v_e = 48.85$	$n_{F'} - n_{C'} = 0.014266$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.65990
n_{1970}	1970.09	1.66516
n_{1530}	1529.58	1.67106
n_{1129}	1128.64	1.67666
n_{1064}	1064.00	1.67773
n_t	1013.98	1.67863
n_s	852.11	1.68220
$n_{A'}$	768.19	1.68471
n_r	706.52	1.68705
n_C	656.27	1.68941
$n_{C'}$	643.85	1.69007
n_{He-Ne}	632.80	1.69070
n_D	589.29	1.69350
n_d	587.56	1.69362
n_e	546.07	1.69696
n_F	486.13	1.70351
$n_{F'}$	479.99	1.70433
n_g	435.84	1.71141
n_h	404.66	1.71805
n_i	365.01	1.72957

Constants of Dispersion Formula	
A_0	2.80794251E+00
A_1	-1.04533648E-02
A_2	2.07773005E-02
A_3	4.06086547E-04
A_4	1.98268226E-05
A_5	-7.40077504E-07

Density	
ρ (g/cm ³)	3.97

Solarization	
$\Delta\lambda$ (%)	-0.5

Relative Partial Dispersion	
$P_{d,C}$	0.2986
$P_{e,d}$	0.2369
$P_{g,F}$	0.5603
$P'_{d,c'}$	0.2488
$P'_{e,d}$	0.2341
$P'_{g,F'}$	0.4963

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0015
$\Delta P_{g,F}$	-0.0016
$\Delta P_{C,t}$	-0.0139
$\Delta P_{C,s}$	-0.0071

Thermal Properties	
T _g (°C)	663
T _s (°C)	699
T ₁₀ ^{14.5} (°C)	603
T ₁₀ ¹³ (°C)	640
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	74
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	87
λ (W/(m·K))	0.87

Mechanical Properties	
HK (10 ⁷ Pa)	545
F _A	159
E (GPa)	91.9
G (GPa)	36.0
μ	0.277
σ_b (MPa)	73.9
B (10 ⁻¹² /Pa)	1.70

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	65
-40/-30	68
-30/-20	70
-20/-10	71
-10/0	72
0/10	73
10/20	73
20/30	75
30/40	76
40/50	76
50/60	77
60/70	78
70/80	78
80/90	79
90/100	80
100/110	80
110/120	81
120/130	82
130/140	83
140/150	83
150/160	84

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.922	0.850
2200	0.976	0.953
2000	0.990	0.980
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	0.995	0.990
440	0.992	0.986
420	0.987	0.982
400	0.981	0.971
390	0.974	0.957
380	0.961	0.931
370	0.932	0.876
360	0.866	0.759
350	0.716	0.521
340	0.409	0.174
330	0.078	0.010
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/330
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	363/334

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	1.3	1.6	1.8	1.8	1.9	2.0	2.2	2.6	2.7	3.2
-40 ~ -20	1.3	1.7	1.9	1.9	1.9	2.0	2.2	2.6	2.7	3.2
-20 ~ 0	1.3	1.6	1.9	1.9	1.9	2.1	2.3	2.7	2.8	3.3
0 ~ 20	1.3	1.7	1.9	1.9	1.9	2.1	2.3	2.7	2.8	3.3
20 ~ 40	1.3	1.8	2.0	2.0	2.0	2.1	2.4	2.7	2.8	3.5
40 ~ 60	1.4	1.8	2.1	2.1	2.1	2.1	2.4	2.8	2.9	3.5
60 ~ 80	1.5	1.9	2.1	2.1	2.1	2.3	2.5	3.0	3.1	3.6
80 ~ 100	1.5	1.9	2.1	2.2	2.2	2.3	2.6	3.1	3.3	3.7
100 ~ 120	1.5	1.9	2.1	2.2	2.2	2.3	2.7	3.2	3.4	3.8
120 ~ 140	1.6	2.0	2.1	2.2	2.3	2.4	2.8	3.3	3.4	3.9
140 ~ 160	1.7	2.1	2.2	2.3	2.4	2.6	3.0	3.5	3.6	4.0

Constants of dn/dt		
D ₀	D ₁	D ₂
-7.87E-07	1.19E-08	-2.18E-11
E ₀	E ₁	λ_{TK}
5.08E-07	3.70E-10	2.42E-01