

H-LaF52	786442	$n_d = 1.78590$	$v_d = 44.19$	$n_F - n_C = 0.017786$
		$n_e = 1.79013$	$v_e = 43.93$	$n_{F'} - n_{C'} = 0.017988$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.74308
n_{1970}	1970.09	1.74989
n_{1530}	1529.58	1.75749
n_{1129}	1128.64	1.76459
n_{1064}	1064.00	1.76594
n_t	1013.98	1.76706
n_s	852.11	1.77153
$n_{A'}$	768.19	1.77468
n_r	706.52	1.77761
n_C	656.27	1.78059
$n_{C'}$	643.85	1.78142
n_{He-Ne}	632.80	1.78221
n_D	589.29	1.78574
n_d	587.56	1.78590
n_e	546.07	1.79013
n_F	486.13	1.79837
$n_{F'}$	479.99	1.79941
n_g	435.84	1.80839
n_h	404.66	1.81685
n_i	365.01	1.83170

Constants of Dispersion Formula	
A_0	3.11096434E+00
A_1	-1.43300745E-02
A_2	2.60159962E-02
A_3	1.10002413E-03
A_4	-6.28685795E-05
A_5	4.85754790E-06

Density		Solarization	
ρ (g/cm ³)	4.38	$\Delta\lambda$ (%)	-0.4

Relative Partial Dispersion	
$P_{d,C}$	0.2985
$P_{e,d}$	0.2378
$P_{g,F}$	0.5634
$P'_{d,c'}$	0.2491
$P'_{e,d}$	0.2352
$P'_{g,F'}$	0.4992

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0025
$\Delta P_{g,F}$	-0.0068
$\Delta P_{C,t}$	0.0065
$\Delta P_{C,s}$	0.0029

Thermal Properties	
T _g (°C)	606
T _s (°C)	638
T ₁₀ ^{14.5} (°C)	548
T ₁₀ ¹³ (°C)	574
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	56
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	72
λ (W/(m·K))	0.85

Mechanical Properties	
HK (10 ⁷ Pa)	649
F _A	76
E (GPa)	112.5
G (GPa)	41.8
μ	0.346
σ_b (MPa)	89.9
B (10 ⁻¹² /Pa)	2.06

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	50
-40/-30	53
-30/-20	54
-20/-10	55
-10/0	56
0/10	57
10/20	58
20/30	59
30/40	59
40/50	60
50/60	60
60/70	61
70/80	61
80/90	62
90/100	63
100/110	64
110/120	65
120/130	66
130/140	67
140/150	68
150/160	68

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.830	0.689
2200	0.958	0.918
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	0.998	0.996
460	0.996	0.993
440	0.994	0.990
420	0.988	0.985
400	0.982	0.975
390	0.975	0.963
380	0.966	0.945
370	0.949	0.913
360	0.920	0.858
350	0.873	0.774
340	0.793	0.639
330	0.639	0.418
320	0.349	0.127
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	350/316

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	7.3	7.7	8.0	8.0	8.1	8.4	8.7	9.4	9.4	10.2
-40 ~ -20	7.3	7.7	8.0	8.0	8.1	8.4	8.7	9.5	9.5	10.2
-20 ~ 0	7.3	7.7	8.1	8.1	8.2	8.5	8.9	9.6	9.6	10.3
0 ~ 20	7.4	7.8	8.2	8.2	8.2	8.5	8.9	9.6	9.6	10.4
20 ~ 40	7.4	7.8	8.2	8.2	8.3	8.6	8.9	9.7	9.7	10.5
40 ~ 60	7.5	7.9	8.3	8.4	8.4	8.6	9.0	9.7	9.9	10.6
60 ~ 80	7.7	8.2	8.4	8.5	8.6	8.8	9.2	10.1	10.2	10.8
80 ~ 100	7.8	8.3	8.6	8.7	8.7	8.8	9.4	10.3	10.4	11.0
100 ~ 120	8.1	8.4	8.7	8.8	8.8	9.0	9.0	10.5	10.6	11.3
120 ~ 140	8.0	8.6	8.9	9.0	9.0	9.3	9.3	10.8	10.8	11.5
140 ~ 160	8.2	8.7	9.0	9.1	9.2	9.4	9.4	11.0	11.1	11.8

Constants of dn/dt		
D ₀	D ₁	D ₂
9.08E-06	1.24E-08	-1.32E-11
E ₀	E ₁	λ_{TK}
5.76E-07	4.15E-10	2.72E-01