

H-LaF51	700481	$n_d = 1.70000$	$v_d = 48.08$	$n_F - n_C = 0.014559$
		$n_e = 1.70346$	$v_e = 47.80$	$n_{F'} - n_{C'} = 0.014717$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.66549
n_{1970}	1970.09	1.67085
n_{1530}	1529.58	1.67686
n_{1129}	1128.64	1.68256
n_{1064}	1064.00	1.68365
n_t	1013.98	1.68456
n_s	852.11	1.68821
$n_{A'}$	768.19	1.69079
n_r	706.52	1.69320
n_C	656.27	1.69564
$n_{C'}$	643.85	1.69633
n_{He-Ne}	632.80	1.69697
n_D	589.29	1.69987
n_d	587.56	1.70000
n_e	546.07	1.70346
n_F	486.13	1.71020
$n_{F'}$	479.99	1.71104
n_g	435.84	1.71838
n_h	404.66	1.72530
n_i	365.01	1.73740

Constants of Dispersion Formula	
A_0	2.82781336E+00
A_1	-1.06938171E-02
A_2	2.08610635E-02
A_3	7.26796327E-04
A_4	-3.73066587E-05
A_5	3.28626126E-06

Density	
ρ (g/cm ³)	4.01

Solarization	
$\Delta\lambda$ (%)	-0.2

Relative Partial Dispersion	
$P_{d,C}$	0.2995
$P_{e,d}$	0.2377
$P_{g,F}$	0.5619
$P'_{d,c'}$	0.2494
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4987

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0019
$\Delta P_{C,t}$	-0.0121
$\Delta P_{C,s}$	-0.0055

Thermal Properties	
T _g (°C)	661
T _s (°C)	703
T ₁₀ ^{14.5} (°C)	591
T ₁₀ ¹³ (°C)	635
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	77
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	91
λ (W/(m·K))	0.90

Mechanical Properties	
HK (10 ⁷ Pa)	532
F _A	171
E (GPa)	89.9
G (GPa)	34.9
μ	0.299
σ_b (MPa)	79.4
B (10 ⁻¹² /Pa)	1.49

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	68
-40/-30	71
-30/-20	72
-20/-10	74
-10/0	75
0/10	75
10/20	76
20/30	77
30/40	77
40/50	78
50/60	79
60/70	79
70/80	80
80/90	81
90/100	82
100/110	83
110/120	84
120/130	85
130/140	86
140/150	87
150/160	87

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.920	0.845
2200	0.972	0.944
2000	0.990	0.977
1800	0.999	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	0.997	0.996
420	0.995	0.993
400	0.992	0.985
390	0.987	0.977
380	0.978	0.958
370	0.959	0.921
360	0.914	0.836
350	0.798	0.638
340	0.538	0.290
330	0.180	0.032
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/330
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	358/332

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	1.5	1.7	1.9	1.9	2.0	2.1	2.4	2.8	2.8	3.5
-40 ~ -20	1.4	1.7	1.9	2.0	1.9	2.2	2.4	2.8	2.9	3.4
-20 ~ 0	1.4	1.6	1.9	1.9	1.9	2.1	2.4	2.8	2.9	3.4
0 ~ 20	1.3	1.7	1.9	1.9	1.9	2.1	2.3	2.8	2.9	3.5
20 ~ 40	1.3	1.7	2.0	2.0	2.0	2.2	2.4	2.9	3.0	3.5
40 ~ 60	1.4	1.7	2.0	2.0	2.0	2.2	2.5	3.0	3.1	3.7
60 ~ 80	1.5	1.7	2.0	2.0	2.1	2.4	2.6	3.2	3.2	3.8
80 ~ 100	1.6	1.8	2.1	2.1	2.1	2.5	2.6	3.3	3.4	3.9
100 ~ 120	1.7	2.0	2.2	2.2	2.2	2.6	2.7	3.4	3.5	3.9
120 ~ 140	1.8	2.1	2.3	2.4	2.4	2.7	2.9	3.4	3.5	4.0
140 ~ 160	1.8	2.2	2.5	2.6	2.6	2.8	3.0	3.5	3.6	4.1

Constants of dn/dt		
D ₀	D ₁	D ₂
-8.69E-07	1.19E-08	-1.44E-11
E ₀	E ₁	λ_{TK}
5.39E-07	1.97E-10	2.48E-01