

H-LaF50B	773496	$n_d = 1.77250$	$v_d = 49.60$	$n_F - n_C = 0.015575$
		$n_e = 1.77621$	$v_e = 49.36$	$n_{F'} - n_{C'} = 0.015725$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	
n_{1064}	1064.00	1.75428
n_t	1013.98	1.75538
n_s	852.11	1.75960
$n_{A'}$	768.19	1.76249
n_r	706.52	1.76514
n_C	656.27	1.76780
$n_{C'}$	643.85	1.76854
n_{He-Ne}	632.80	1.76924
n_D	589.29	1.77236
n_d	587.56	1.77250
n_e	546.07	1.77621
n_F	486.13	1.78337
$n_{F'}$	479.99	1.78427
n_g	435.84	1.79196
n_h	404.66	1.79913
n_i	365.01	1.81144

Constants of Dispersion Formula	
A_0	3.07486227E+00
A_1	-1.60709812E-02
A_2	2.28883031E-02
A_3	8.28871954E-04
A_4	-4.04256219E-05
A_5	2.26879435E-06

Density	
ρ (g/cm ³)	4.23

Solarization	
$\Delta\lambda$ (%)	-1.2

Relative Partial Dispersion	
$P_{d,C}$	0.3018
$P_{e,d}$	0.2382
$P_{g,F}$	0.5515
$P'_{d,c'}$	0.2518
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4890

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0031
$\Delta P_{g,F}$	-0.0097
$\Delta P_{C,t}$	0.0170
$\Delta P_{C,s}$	0.0070

Thermal Properties	
T _g (°C)	682
T _s (°C)	701
T ₁₀ ^{14.5} (°C)	619
T ₁₀ ¹³ (°C)	665
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	56
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	72
λ (W/(m·K))	0.95

Mechanical Properties	
HK (10 ⁷ Pa)	713
F _A	62
E (GPa)	117.3
G (GPa)	46.9
μ	0.250
σ_b (MPa)	81.5
B (10 ⁻¹² /Pa)	1.37

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	52
-40/-30	53
-30/-20	54
-20/-10	54
-10/0	54
0/10	55
10/20	57
20/30	57
30/40	57
40/50	58
50/60	59
60/70	61
70/80	61
80/90	63
90/100	63
100/110	64
110/120	65
120/130	66
130/140	66
140/150	67
150/160	70

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.759	0.576
2200	0.905	0.818
2000	0.969	0.939
1800	0.986	0.972
1600	0.994	0.987
1400	0.994	0.987
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	0.998	0.996
440	0.997	0.994
420	0.995	0.990
400	0.990	0.980
390	0.984	0.968
380	0.974	0.948
370	0.957	0.915
360	0.928	0.861
350	0.883	0.780
340	0.812	0.660
330	0.699	0.488
320	0.528	0.279
310	0.288	0.083
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	375/310
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	352/307

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	2.1	2.4	2.7	2.8	2.8	3.0	3.3	3.5	3.7	4.2
-40 ~ -20	2.2	2.4	2.8	2.9	3.0	3.1	3.4	3.7	3.8	4.4
-20 ~ 0	2.3	2.5	2.8	2.9	3.0	3.3	3.6	3.9	4.0	4.6
0 ~ 20	2.3	2.5	2.9	3.0	3.1	3.4	3.7	3.9	4.1	4.8
20 ~ 40	2.3	2.6	2.9	3.0	3.1	3.4	3.8	4.1	4.2	5.0
40 ~ 60	2.3	2.7	3.0	3.1	3.2	3.6	3.9	4.1	4.3	5.0
60 ~ 80	2.4	2.7	3.0	3.1	3.3	3.7	3.9	4.1	4.3	5.1
80 ~ 100	2.4	2.7	3.1	3.2	3.4	3.8	4.0	4.2	4.4	5.3
100 ~ 120	2.4	2.9	3.2	3.3	3.5	3.8	4.1	4.3	4.5	5.3
120 ~ 140	2.5	3.0	3.3	3.4	3.6	3.9	4.2	4.4	4.6	5.4
140 ~ 160	2.6	3.0	3.3	3.5	3.6	4.0	4.2	4.4	4.6	5.4

Constants of dn/dt		
D ₀	D ₁	D ₂
4.34E-07	1.20E-08	-2.81E-11
E ₀	E ₁	λ_{TK}
7.25E-07	5.31E-10	1.62E-01