

D-LaF50	773495	$n_d = 1.77250$	$v_d = 49.50$	$n_F - n_C = 0.015605$
		$n_e = 1.77622$	$v_e = 49.26$	$n_{F'} - n_{C'} = 0.015757$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.73130
n_{1970}	1970.09	1.73834
n_{1530}	1529.58	1.74608
n_{1129}	1128.64	1.75309
n_{1064}	1064.00	1.75438
n_t	1013.98	1.75545
n_s	852.11	1.75961
$n_{A'}$	768.19	1.76248
n_r	706.52	1.76513
n_C	656.27	1.76779
$n_{C'}$	643.85	1.76854
n_{He-Ne}	632.80	1.76923
n_D	589.29	1.77236
n_d	587.56	1.77250
n_e	546.07	1.77622
n_F	486.13	1.78340
$n_{F'}$	479.99	1.78430
n_g	435.84	1.79204
n_h	404.66	1.79927
n_i	365.01	1.81174

Constants of Dispersion Formula	
A_0	3.07337625E+00
A_1	-1.48574785E-02
A_2	2.34948451E-02
A_3	7.16989975E-04
A_4	-3.03961557E-05
A_5	2.24464169E-06

Density		Solarization	
ρ (g/cm ³)	4.62	$\Delta\lambda$ (%)	-1.8

Relative Partial Dispersion	
$P_{d,C}$	0.3018
$P_{e,d}$	0.2384
$P_{g,F}$	0.5537
$P'_{d,c'}$	0.2513
$P'_{e,d}$	0.2361
$P'_{g,F'}$	0.4912

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0028
$\Delta P_{g,F}$	-0.0077
$\Delta P_{C,t}$	0.0108
$\Delta P_{C,s}$	0.0050

Thermal Properties	
Tg (°C)	633
Ts (°C)	659
T ₁₀ ^{14.5} (°C)	583
T ₁₀ ¹³ (°C)	617
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	65
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	75
λ (W/(m·K))	0.75
β_d	138

Mechanical Properties	
HK (10 ⁷ Pa)	643
F _A	81
E (GPa)	114.8
G (GPa)	43.4
μ	0.323
σ_b (MPa)	88.3
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	58
-40/-30	60
-30/-20	61
-20/-10	62
-10/0	63
0/10	63
10/20	64
20/30	64
30/40	64
40/50	65
50/60	65
60/70	66
70/80	66
80/90	67
90/100	67
100/110	68
110/120	69
120/130	70
130/140	71
140/150	72
150/160	73

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.820	0.674
2200	0.955	0.914
2000	0.989	0.978
1800	0.997	0.994
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	0.997	0.994
440	0.996	0.992
420	0.995	0.990
400	0.991	0.982
390	0.987	0.976
380	0.982	0.966
370	0.973	0.950
360	0.952	0.920
350	0.931	0.870
340	0.898	0.809
330	0.853	0.731
320	0.797	0.639
310	0.679	0.465
300	0.649	0.423
290	0.572	0.329
280	0.336	0.122

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	3.7	4.0	4.1	4.1	4.2	4.4	4.7	5.0	5.1	5.5
-40 ~ -20	3.8	4.0	4.2	4.2	4.3	4.5	4.9	5.2	5.3	5.7
-20 ~ 0	3.8	4.1	4.2	4.2	4.3	4.8	5.0	5.5	5.6	6.0
0 ~ 20	3.9	4.1	4.3	4.4	4.4	4.8	5.2	5.6	5.6	6.1
20 ~ 40	4.0	4.2	4.4	4.4	4.4	4.8	5.2	5.8	5.8	6.3
40 ~ 60	4.0	4.3	4.6	4.6	4.6	4.9	5.6	6.0	6.0	6.4
60 ~ 80	4.1	4.4	4.6	4.7	4.7	5.1	5.7	6.0	6.1	6.5
80 ~ 100	4.2	4.5	4.7	4.8	4.9	5.3	5.9	6.1	6.2	6.6
100 ~ 120	4.3	4.6	4.8	4.9	5.0	5.5	6.0	6.3	6.4	6.9
120 ~ 140	4.5	4.7	5.0	5.1	5.2	5.6	6.2	6.6	6.7	7.3
140 ~ 160	4.6	4.8	5.2	5.2	5.3	5.7	6.3	6.7	6.8	7.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/280
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	338/277

Constants of dn/dt		
D ₀	D ₁	D ₂
3.11E-06	1.25E-08	-2.12E-11
E ₀	E ₁	λ_{TK}
6.29E-07	7.94E-10	1.96E-01