

D-LaF731	731405	$n_d = 1.73077$	$v_d = 40.50$	$n_F - n_C = 0.018043$
		$n_e = 1.73505$	$v_e = 40.25$	$n_{F'} - n_{C'} = 0.018263$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.68874
n_{1970}	1970.09	1.69525
n_{1530}	1529.58	1.70254
n_{1129}	1128.64	1.70947
n_{1064}	1064.00	1.71080
n_t	1013.98	1.71191
n_s	852.11	1.71635
$n_{A'}$	768.19	1.71949
n_r	706.52	1.72243
n_C	656.27	1.72541
$n_{C'}$	643.85	1.72625
n_{He-Ne}	632.80	1.72705
n_D	589.29	1.73061
n_d	587.56	1.73077
n_e	546.07	1.73505
n_F	486.13	1.74345
$n_{F'}$	479.99	1.74452
n_g	435.84	1.75376
n_h	404.66	1.76260
n_i	365.01	1.77835

Constants of Dispersion Formula	
A_0	2.91839395E+00
A_1	-1.31881796E-02
A_2	2.56126448E-02
A_3	9.59611523E-04
A_4	-3.53323234E-05
A_5	4.57862484E-06

Density	
ρ (g/cm ³)	3.21

Solarization	
$\Delta\lambda$ (%)	0.0

Relative Partial Dispersion	
$P_{d,C}$	0.2971
$P_{e,d}$	0.2372
$P_{g,F}$	0.5714
$P'_{d,c'}$	0.2475
$P'_{e,d}$	0.2344
$P'_{g,F'}$	0.5059

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0049
$\Delta P_{C,t}$	0.0118
$\Delta P_{C,s}$	0.0045

Thermal Properties	
Tg (°C)	498
Ts (°C)	533
T ₁₀ ^{14.5} (°C)	460
T ₁₀ ¹³ (°C)	492
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	95
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	112
λ (W/(m·K))	1.29
β_d	105

Mechanical Properties	
HK (10 ⁷ Pa)	611
F _A	127
E (GPa)	111.9
G (GPa)	43.2
μ	0.296
σ_b (MPa)	63.7
B (10 ⁻¹² /Pa)	1.96

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	87
-40/-30	90
-30/-20	91
-20/-10	93
-10/0	94
0/10	95
10/20	96
20/30	97
30/40	97
40/50	98
50/60	98
60/70	99
70/80	100
80/90	101
90/100	102
100/110	103
110/120	104
120/130	105
130/140	106
140/150	108
150/160	109

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.900	0.810
2200	0.982	0.964
2000	0.995	0.990
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	0.997	0.995
500	0.995	0.992
480	0.992	0.988
460	0.989	0.982
440	0.985	0.974
420	0.975	0.953
400	0.967	0.937
390	0.951	0.908
380	0.923	0.856
370	0.863	0.752
360	0.728	0.535
350	0.410	0.171
340	0.057	0.008
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	364/335

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	1.1	1.4	1.7	1.8	2.2	2.3	2.5	2.8	2.9	3.6
-40 ~ -20	1.3	1.6	1.9	2.0	2.4	2.7	2.7	3.1	3.3	4.1
-20 ~ 0	1.5	1.8	2.1	2.2	2.7	2.9	3.0	3.4	3.5	4.3
0 ~ 20	1.6	2.0	2.4	2.5	2.9	3.1	3.3	3.6	3.8	4.5
20 ~ 40	1.8	2.2	2.6	2.7	2.9	3.2	3.5	3.8	4.0	4.8
40 ~ 60	1.9	2.2	2.6	2.8	2.9	3.3	3.7	4.0	4.1	5.0
60 ~ 80	2.2	2.3	2.7	2.9	3.0	3.5	3.8	4.2	4.3	5.2
80 ~ 100	2.3	2.5	2.8	2.9	3.1	3.6	4.0	4.4	4.5	5.4
100 ~ 120	2.4	2.7	2.9	3.0	3.2	3.7	4.1	4.5	4.6	5.7
120 ~ 140	2.4	2.7	2.9	3.0	3.3	3.8	4.3	4.6	4.7	6.0
140 ~ 160	2.6	2.8	3.0	3.1	3.4	3.9	4.4	4.8	4.8	6.3

Constants of dn/dt		
D ₀	D ₁	D ₂
-4.06E-07	1.61E-08	-3.91E-11
E ₀	E ₁	λ_{TK}
7.84E-07	7.44E-10	2.13E-01