

H-LaF2	717479	$n_d = 1.71700$	$v_d = 47.89$	$n_F - n_C = 0.014972$
		$n_e = 1.72056$	$v_e = 47.65$	$n_{F'} - n_{C'} = 0.015122$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.68162
n_{1970}	1970.09	1.68709
n_{1530}	1529.58	1.69323
n_{1129}	1128.64	1.69906
n_{1064}	1064.00	1.70018
n_t	1013.98	1.70112
n_s	852.11	1.70486
$n_{A'}$	768.19	1.70752
n_r	706.52	1.70999
n_C	656.27	1.71250
$n_{C'}$	643.85	1.71321
n_{He-Ne}	632.80	1.71387
n_D	589.29	1.71685
n_d	587.56	1.71700
n_e	546.07	1.72056
n_F	486.13	1.72747
$n_{F'}$	479.99	1.72833
n_g	435.84	1.73583
n_h	404.66	1.74287
n_i	365.01	1.75517

Constants of Dispersion Formula	
A_0	2.88352222E+00
A_1	-1.10333797E-02
A_2	2.14058991E-02
A_3	9.16188540E-04
A_4	-7.10356524E-05
A_5	5.14524697E-06

Density		Solarization	
ρ (g/cm ³)	4.18	$\Delta\lambda$ (%)	-0.6

Relative Partial Dispersion	
$P_{d,C}$	0.3006
$P_{e,d}$	0.2378
$P_{g,F}$	0.5584
$P'_{d,c'}$	0.2506
$P'_{e,d}$	0.2354
$P'_{g,F'}$	0.4960

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0057
$\Delta P_{C,t}$	-0.0121
$\Delta P_{C,s}$	-0.0051

Thermal Properties	
T _g (°C)	645
T _s (°C)	693
T ₁₀ ^{14.5} (°C)	577
T ₁₀ ¹³ (°C)	618
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	87
λ (W/(m·K))	0.77

Mechanical Properties	
HK (10 ⁷ Pa)	516
F _A	180
E (GPa)	95.4
G (GPa)	36.1
μ	0.320
σ_b (MPa)	67.7
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	66
-40/-30	69
-30/-20	70
-20/-10	71
-10/0	72
0/10	73
10/20	74
20/30	75
30/40	75
40/50	76
50/60	77
60/70	77
70/80	77
80/90	76
90/100	77
100/110	78
110/120	79
120/130	81
130/140	82
140/150	83
150/160	84

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.904	0.817
2200	0.966	0.933
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	0.999	0.998
460	0.999	0.998
440	0.999	0.998
420	0.998	0.996
400	0.991	0.986
390	0.988	0.978
380	0.983	0.967
370	0.972	0.947
360	0.946	0.899
350	0.890	0.799
340	0.767	0.591
330	0.508	0.258
320	0.184	0.033
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	350/323

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	1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3
-40 ~ -20	1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3
-20 ~ 0	1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3
0 ~ 20	1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3
20 ~ 40	1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3
40 ~ 60	1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.8	2.8	3.2
60 ~ 80	1.4	1.6	1.8	1.8	1.9	2.1	2.4	2.9	3.0	3.5
80 ~ 100	1.4	1.8	2.0	2.0	2.0	2.3	2.6	3.0	3.1	3.7
100 ~ 120	1.4	1.9	2.1	2.1	2.1	2.4	2.7	3.1	3.2	3.9
120 ~ 140	1.4	2.0	2.2	2.2	2.2	2.4	2.7	3.3	3.4	4.0
140 ~ 160	1.5	2.2	2.3	2.3	2.3	2.5	2.8	3.4	3.5	4.2

Constants of dn/dt		
D ₀	D ₁	D ₂
-1.08E-06	1.10E-08	-1.36E-11
E ₀	E ₁	λ_{TK}
5.02E-07	3.02E-10	2.53E-01