

H-LaF3B	744449	$n_d = 1.74400$	$v_d = 44.90$	$n_F - n_C = 0.016570$
		$n_e = 1.74794$	$v_e = 44.63$	$n_F - n_C = 0.016760$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.70713
n_{1970}	1970.09	1.71244
n_{1530}	1529.58	1.71852
n_{1129}	1128.64	1.72451
n_{1064}	1064.00	1.72568
n_t	1013.98	1.72667
n_s	852.11	1.73070
$n_{A'}$	768.19	1.73359
n_f	706.52	1.73630
n_C	656.27	1.73906
$n_{C'}$	643.85	1.73984
n_{He-Ne}	632.80	1.74057
n_D	589.29	1.74386
n_d	587.56	1.74400
n_e	546.07	1.74794
n_F	486.13	1.75563
$n_{F'}$	479.99	1.75660
n_g	435.84	1.76496
n_h	404.66	1.77285
n_i	365.01	1.78666

Relative Partial Dispersion	
$P_{d,C}$	0.2981
$P_{e,d}$	0.2378
$P_{g,F}$	0.5631
$P'_{d,c'}$	0.2482
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4988

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.914	0.835
2200	0.960	0.922
2000	0.983	0.966
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	0.997	0.995
400	0.994	0.990
390	0.990	0.984
380	0.987	0.974
370	0.977	0.954
360	0.954	0.911
350	0.922	0.849
340	0.864	0.745
330	0.759	0.575
320	0.556	0.310
310	0.212	0.048
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0013
$\Delta P_{g,F}$	-0.0060
$\Delta P_{C,t}$	-0.0099
$\Delta P_{C,s}$	-0.0036

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	67
-40/-30	69
-30/-20	71
-20/-10	72
-10/0	73
0/10	74
10/20	75
20/30	76
30/40	77
40/50	77
50/60	78
60/70	78
70/80	78
80/90	79
90/100	80
100/110	81
110/120	82
120/130	83
130/140	84
140/150	85
150/160	86

Thermal Properties	
T _g ($^{\circ}C$)	630
T _s ($^{\circ}C$)	683
T ₁₀ ^{14.5} ($^{\circ}C$)	557
T ₁₀ ¹³ ($^{\circ}C$)	602
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	74
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	89
λ (W/(m K))	0.98

Constants of Dispersion Formula	
A ₀	2.96773191E+00
A ₁	-1.07334025E-02
A ₂	2.46639798E-02
A ₃	7.96273827E-04
A ₄	-3.49870097E-05
A ₅	3.36130613E-06

Mechanical Properties	
HK (10^7 Pa)	551
F _A	149
E (GPa)	97.3
G (GPa)	37.6
μ	0.295
σ_b (MPa)	77
B (10^{-12} /Pa)	1.57

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.32	-0.3

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	2.1	2.4	2.6	2.6	2.6	2.9	3.2	3.7	3.8	4.4
-40 ~ -20	2.0	2.3	2.6	2.7	2.7	2.9	3.2	3.7	3.8	4.4
-20 ~ 0	2.0	2.4	2.6	2.7	2.7	2.9	3.2	3.7	3.9	4.5
0 ~ 20	2.0	2.4	2.6	2.7	2.7	2.9	3.2	3.8	3.9	4.6
20 ~ 40	2.0	2.4	2.6	2.7	2.7	2.9	3.2	3.9	4.0	4.6
40 ~ 60	2.0	2.4	2.7	2.8	2.8	3.0	3.3	4.0	4.0	4.7
60 ~ 80	2.0	2.5	2.7	2.8	2.8	3.0	3.3	4.0	4.1	4.8
80 ~ 100	2.1	2.6	2.9	3.0	2.9	3.1	3.5	4.1	4.2	4.9
100 ~ 120	2.1	2.7	2.9	3.0	3.0	3.1	3.5	4.1	4.2	2.0
120 ~ 140	2.2	2.7	3.0	3.1	3.0	3.3	3.6	4.2	4.3	5.1
140 ~ 160	2.3	2.8	3.0	3.1	3.1	3.3	3.6	4.2	4.3	5.1

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	365/310
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	345/310

Constants of dn/dt		
D ₀	D ₁	D ₂
3.99E-08	1.22E-08	-2.10E-11
E ₀	E ₁	λ_{TK}
7.06E-07	-1.18E-10	1.86E-01