

H-LaF6LB	757477	$n_d = 1.75700$	$v_d = 47.71$	$n_F - n_C = 0.015866$
		$n_e = 1.76078$	$v_e = 47.47$	$n_{F'} - n_{C'} = 0.016028$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.71608
n_{1970}	1970.09	1.72302
n_{1530}	1529.58	1.73065
n_{1129}	1128.64	1.73755
n_{1064}	1064.00	1.73882
n_t	1013.98	1.73988
n_s	852.11	1.74401
$n_{A'}$	768.19	1.74688
n_f	706.52	1.74954
n_C	656.27	1.75223
$n_{C'}$	643.85	1.75298
n_{He-Ne}	632.80	1.75368
n_D	589.29	1.75686
n_d	587.56	1.75700
n_e	546.07	1.76078
n_F	486.13	1.76809
$n_{F'}$	479.99	1.76901
n_g	435.84	1.77689
n_h	404.66	1.78427
n_i	365.01	1.79708

Relative Partial Dispersion	
$P_{d,C}$	0.3006
$P_{e,d}$	0.2382
$P_{g,F}$	0.5546
$P'_{d,c'}$	0.2508
$P'_{e,d}$	0.2358
$P'_{g,F'}$	0.4916

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.839	0.704
2200	0.971	0.943
2000	0.996	0.992
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	0.997
460	0.998	0.996
440	0.997	0.994
420	0.994	0.989
400	0.991	0.981
390	0.988	0.974
380	0.982	0.961
370	0.972	0.939
360	0.956	0.895
350	0.928	0.841
340	0.881	0.758
330	0.802	0.627
320	0.652	0.412
310	0.361	0.125
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0031
$\Delta P_{g,F}$	-0.0097
$\Delta P_{C,t}$	0.0071
$\Delta P_{C,s}$	0.0032

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	48
-40/-30	51
-30/-20	52
-20/-10	53
-10/0	54
0/10	55
10/20	55
20/30	56
30/40	57
40/50	57
50/60	58
60/70	58
70/80	58
80/90	59
90/100	60
100/110	61
110/120	62
120/130	63
130/140	64
140/150	65
150/160	65

Thermal Properties	
T _g ($^{\circ}C$)	606
T _s ($^{\circ}C$)	631
T ₁₀ ^{14.5} ($^{\circ}C$)	538
T ₁₀ ¹³ ($^{\circ}C$)	580
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	54
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	70
λ (W/(m K))	0.90

Constants of Dispersion Formula	
A ₀	3.01951070E+00
A ₁	-1.45577999E-02
A ₂	2.21379040E-02
A ₃	1.27974562E-03
A ₄	-1.16064079E-04
A ₅	7.16841005E-06

Mechanical Properties	
HK (10^7 Pa)	654
F _A	78
E (GPa)	108.3
G (GPa)	41.3
μ	0.312
σ_b (MPa)	73
B (10^{-12} /Pa)	2.20

Density		Solarization	
ρ (g/cm ³)	4.25	$\Delta\lambda$ (%)	-0.5

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	7.2	7.7	8.0	8.0	8.1	8.2	8.5	9.2	9.2	9.8
-40 ~ -20	7.2	7.7	8.0	8.1	8.1	8.2	8.6	9.2	9.2	9.8
-20 ~ 0	7.3	7.7	8.0	8.1	8.1	8.4	8.6	9.3	9.3	9.9
0 ~ 20	7.4	7.7	8.0	8.1	8.2	8.4	8.6	9.4	9.4	10.0
20 ~ 40	7.4	7.9	8.1	8.2	8.2	8.6	8.7	9.4	9.4	10.0
40 ~ 60	7.4	8.0	8.2	8.3	8.4	8.7	9.0	9.5	9.5	10.4
60 ~ 80	7.7	8.2	8.4	8.5	8.6	8.9	9.0	9.8	9.8	10.5
80 ~ 100	7.7	8.3	8.5	8.6	8.8	9.0	9.2	10.0	10.0	10.8
100 ~ 120	7.9	8.6	8.9	9.0	9.1	9.2	9.4	10.2	10.2	10.9
120 ~ 140	8.0	8.8	9.0	9.2	9.3	9.4	9.5	10.3	10.3	11.1
140 ~ 160	8.1	8.9	9.2	9.3	9.4	9.5	9.7	10.6	10.6	11.3

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/305
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	345/306

Constants of dn/dt		
D ₀	D ₁	D ₂
9.40E-06	1.36E-08	-1.08E-11
E ₀	E ₁	λ_{TK}
6.21E-07	2.74E-10	2.21E-01