

H-LaF76	762401	$n_d = 1.76200$	$v_d = 40.09$	$n_F - n_C = 0.019010$
		$n_e = 1.76651$	$v_e = 39.86$	$n_{F'} - n_{C'} = 0.019232$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.71750
n_{1970}	1970.09	1.72452
n_{1530}	1529.58	1.73233
n_{1129}	1128.64	1.73966
n_{1064}	1064.00	1.74105
n_t	1013.98	1.74222
n_s	852.11	1.74686
$n_{A'}$	768.19	1.75016
n_f	706.52	1.75325
n_C	656.27	1.75638
$n_{C'}$	643.85	1.75727
n_{He-Ne}	632.80	1.75809
n_D	589.29	1.76183
n_d	587.56	1.76200
n_e	546.07	1.76651
n_F	486.13	1.77539
$n_{F'}$	479.99	1.77651
n_g	435.84	1.78629
n_h	404.66	1.79568
n_i	365.01	1.81262

Relative Partial Dispersion	
$P_{d,C}$	0.2956
$P_{e,d}$	0.2372
$P_{g,F}$	0.5734
$P'_{d,c'}$	0.2459
$P'_{e,d}$	0.2345
$P'_{g,f'}$	0.5085

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _W	1
D _A	4
R _{OH} (S)	1
RP (S)	1
CR	

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.872	0.760
2200	0.976	0.953
2000	0.990	0.980
1800	0.998	0.996
1600	0.998	0.996
1400	0.998	0.996
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	0.996	0.992
480	0.994	0.989
460	0.992	0.984
440	0.990	0.980
420	0.984	0.970
400	0.972	0.942
390	0.959	0.916
380	0.932	0.860
370	0.871	0.745
360	0.713	0.487
350	0.368	0.124
340		
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0009
$\Delta P_{g,F}$	-0.0036
$\Delta P_{C,t}$	0.0105
$\Delta P_{C,s}$	0.0042

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	55
-40/-30	57
-30/-20	59
-20/-10	60
-10/0	61
0/10	62
10/20	63
20/30	63
30/40	64
40/50	64
50/60	65
60/70	65
70/80	66
80/90	66
90/100	67
100/110	68
110/120	69
120/130	70
130/140	71
140/150	72
150/160	72

Thermal Properties	
T _g ($^{\circ}C$)	656
T _s ($^{\circ}C$)	682
T ₁₀ ^{14.5} ($^{\circ}C$)	589
T ₁₀ ¹³ ($^{\circ}C$)	625
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	62
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	74
λ (W/(m K))	1.11

Constants of Dispersion Formula	
A ₀	3.02351576E+00
A ₁	-1.45336956E-02
A ₂	2.61746880E-02
A ₃	1.46334106E-03
A ₄	-1.07305803E-04
A ₅	9.60593182E-06

Mechanical Properties	
HK (10^7 Pa)	563
F _A	118
E (GPa)	103.1
G (GPa)	39.3
μ	0.310
σ_b (MPa)	69
B (10^{-12} /Pa)	1.84

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.97	-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	2.7	2.8	3.1	3.1	3.2	3.5	3.6	4.1	4.1	4.7
-40 ~ -20	2.7	2.9	3.1	3.1	3.2	3.6	3.7	4.1	4.2	4.9
-20 ~ 0	2.7	2.9	3.1	3.2	3.3	3.6	3.8	4.3	4.4	5.0
0 ~ 20	2.7	2.9	3.1	3.3	3.4	3.6	3.8	4.3	4.4	5.1
20 ~ 40	2.7	3.0	3.2	3.3	3.4	3.8	3.9	4.4	4.5	5.3
40 ~ 60	2.9	3.1	3.3	3.4	3.4	3.8	4.0	4.5	4.6	5.5
60 ~ 80	3.0	3.3	3.5	3.5	3.6	3.8	4.1	4.7	4.8	5.7
80 ~ 100	3.0	3.4	3.6	3.7	3.7	4.0	4.2	4.9	5.0	5.9
100 ~ 120	3.1	3.4	3.7	3.7	3.7	4.1	4.3	5.0	5.1	6.1
120 ~ 140	3.0	3.5	3.7	3.8	3.8	4.2	4.4	5.2	5.3	6.4
140 ~ 160	3.2	3.5	3.8	3.9	4.0	4.4	4.6	5.3	5.4	6.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	400/350
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	374/347

Constants of dn/dt		
D ₀	D ₁	D ₂
1.58E-06	1.15E-08	-2.00E-11
E ₀	E ₁	λ_{TK}
4.02E-07	5.35E-10	3.07E-01