

H-LaF62	720437	$n_d = 1.72000$	$v_d = 43.68$	$n_F - n_C = 0.016483$
		$n_e = 1.72391$	$v_e = 43.39$	$n_{F'} - n_{C'} = 0.016682$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.68074
n_{1970}	1970.09	1.68697
n_{1530}	1529.58	1.69391
n_{1129}	1128.64	1.70040
n_{1064}	1064.00	1.70163
n_t	1013.98	1.70266
n_s	852.11	1.70676
$n_{A'}$	768.19	1.70965
n_f	706.52	1.71235
n_C	656.27	1.71511
$n_{C'}$	643.85	1.71588
n_{He-Ne}	632.80	1.71660
n_D	589.29	1.71985
n_d	587.56	1.72000
n_e	546.07	1.72391
n_F	486.13	1.73159
$n_{F'}$	479.99	1.73256
n_g	435.84	1.74094
n_h	404.66	1.74893
n_i	365.01	1.76316

Relative Partial Dispersion	
$P_{d,C}$	0.2967
$P_{e,d}$	0.2372
$P_{g,F}$	0.5673
$P'_{d,c'}$	0.2470
$P'_{e,d}$	0.2344
$P'_{g,F'}$	0.5023

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.872	0.760
2200	0.954	0.910
2000	0.991	0.982
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	0.998	0.996
480	0.996	0.993
460	0.994	0.990
440	0.992	0.985
420	0.984	0.975
400	0.976	0.958
390	0.966	0.940
380	0.946	0.901
370	0.901	0.819
360	0.788	0.625
350	0.517	0.272
340	0.127	0.020
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	-0.0038
$\Delta P_{C,t}$	0.0036
$\Delta P_{C,s}$	0.0014

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	61
-40/-30	64
-30/-20	66
-20/-10	67
-10/0	68
0/10	69
10/20	70
20/30	71
30/40	72
40/50	73
50/60	74
60/70	75
70/80	75
80/90	76
90/100	77
100/110	79
110/120	80
120/130	81
130/140	83
140/150	84
150/160	85

Thermal Properties	
T _g ($^{\circ}C$)	604
T _s ($^{\circ}C$)	640
T ₁₀ ^{14.5} ($^{\circ}C$)	530
T ₁₀ ¹³ ($^{\circ}C$)	581
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	71
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	88
λ (W/(m K))	0.95

Constants of Dispersion Formula	
A ₀	2.88897190E+00
A ₁	-1.26328327E-02
A ₂	2.26898960E-02
A ₃	1.15077142E-03
A ₄	-8.54940157E-05
A ₅	7.07758016E-06

Mechanical Properties	
HK (10^7 Pa)	564
F _A	149
E (GPa)	106.1
G (GPa)	40.3
μ	0.317
σ_b (MPa)	70
B (10^{-12} /Pa)	2.25

Density		Solarization	
ρ (g/cm ³)	3.71	$\Delta\lambda$ (%)	-0.9

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	2.4	2.8	3.1	3.1	3.1	3.3	3.6	4.1	4.2	4.7
-40 ~ -20	2.4	2.8	3.1	3.1	3.1	3.3	3.5	4.2	4.3	4.8
-20 ~ 0	2.5	2.8	3.1	3.1	3.2	3.4	3.6	4.2	4.3	4.9
0 ~ 20	2.4	2.9	3.1	3.1	3.2	3.4	3.6	4.2	4.3	5.0
20 ~ 40	2.4	2.9	3.1	3.1	3.2	3.4	3.7	4.3	4.4	5.0
40 ~ 60	2.4	2.9	3.1	3.1	3.2	3.5	3.7	4.4	4.5	5.2
60 ~ 80	2.5	3.0	3.2	3.3	3.4	3.6	3.8	4.6	4.7	5.3
80 ~ 100	2.5	3.1	3.3	3.4	3.5	3.7	3.9	4.7	4.8	5.5
100 ~ 120	2.7	3.2	3.5	3.5	3.6	3.9	4.1	4.9	5.0	5.7
120 ~ 140	2.8	3.3	3.6	3.6	3.7	4.0	4.3	5.1	5.2	5.8
140 ~ 160	3.0	3.4	3.8	3.8	3.9	4.2	4.4	5.2	5.3	5.9

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	365/342

Constants of dn/dt		
D ₀	D ₁	D ₂
9.15E-07	1.15E-08	-1.32E-11
E ₀	E ₁	λ_{TK}
6.49E-07	4.46E-10	2.36E-01