

H-LaF55	750353	$n_d = 1.74950$	$v_d = 35.33$	$n_F - n_C = 0.021214$
		$n_e = 1.75453$	$v_e = 35.10$	$n_{F'} - n_{C'} = 0.021498$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.70383
n_{1970}	1970.09	1.71040
n_{1530}	1529.58	1.71787
n_{1129}	1128.64	1.72521
n_{1064}	1064.00	1.72665
n_t	1013.98	1.72788
n_s	852.11	1.73284
$n_{A'}$	768.19	1.73642
n_f	706.52	1.73980
n_C	656.27	1.74326
$n_{C'}$	643.85	1.74424
n_{He-Ne}	632.80	1.74516
n_D	589.29	1.74932
n_d	587.56	1.74950
n_e	546.07	1.75453
n_F	486.13	1.76447
$n_{F'}$	479.99	1.76574
n_g	435.84	1.77675
n_h	404.66	1.78738
n_i	365.01	1.80661

Relative Partial Dispersion	
$P_{d,C}$	0.2941
$P_{e,d}$	0.2371
$P_{g,F}$	0.5789
$P'_{d,c'}$	0.2447
$P'_{e,d}$	0.2340
$P'_{g,F'}$	0.5121

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.967	0.936
2200	0.982	0.965
2000	0.993	0.987
1800	0.996	0.992
1600	0.998	0.995
1400	0.998	0.996
1200	0.999	0.997
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	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.996	0.992
480	0.994	0.989
460	0.992	0.985
440	0.990	0.980
420	0.987	0.975
400	0.981	0.963
390	0.974	0.949
380	0.963	0.928
370	0.946	0.895
360	0.919	0.845
350	0.872	0.760
340	0.759	0.576
330	0.486	0.236
320	0.118	0.014
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0061
$\Delta P_{C,t}$	0.0137
$\Delta P_{C,s}$	0.0060

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	70
-40/-30	72
-30/-20	74
-20/-10	76
-10/0	77
0/10	78
10/20	79
20/30	80
30/40	81
40/50	82
50/60	83
60/70	84
70/80	84
80/90	85
90/100	86
100/110	88
110/120	89
120/130	91
130/140	92
140/150	94
150/160	95

Thermal Properties	
T _g ($^{\circ}C$)	551
T _s ($^{\circ}C$)	589
T ₁₀ ^{14.5} ($^{\circ}C$)	482
T ₁₀ ¹³ ($^{\circ}C$)	533
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	78
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	104
λ (W/(m K))	1.29

Constants of Dispersion Formula	
A ₀	2.96935883E+00
A ₁	-1.32774456E-02
A ₂	2.93044954E-02
A ₃	1.50919828E-03
A ₄	-9.11873783E-05
A ₅	9.40030979E-06

Mechanical Properties	
HK (10^7 Pa)	580
F _A	156
E (GPa)	109.7
G (GPa)	42.5
μ	0.290
σ_b (MPa)	81
B (10^{-12} /Pa)	2.44

Density		Solarization	
ρ (g/cm ³)	3.23	$\Delta\lambda$ (%)	-0.4

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	4.0	4.4	4.6	4.7	4.7	5.0	5.5	6.3	6.3	7.1
-40 ~ -20	4.0	4.3	4.6	4.7	4.8	5.0	5.5	6.4	6.4	7.2
-20 ~ 0	3.8	4.3	4.7	4.7	4.8	5.1	5.4	6.4	6.4	7.3
0 ~ 20	3.8	4.3	4.7	4.7	4.8	5.1	5.4	6.4	6.4	7.4
20 ~ 40	3.7	4.3	4.7	4.7	4.8	5.1	5.4	6.4	6.4	7.4
40 ~ 60	3.7	4.3	4.7	4.7	4.8	5.1	5.5	6.6	6.6	7.5
60 ~ 80	3.8	4.4	4.8	4.8	4.9	5.2	5.7	6.8	6.8	7.8
80 ~ 100	4.0	4.4	4.9	4.9	5.0	5.3	5.8	6.9	6.9	7.9
100 ~ 120	4.1	4.5	4.9	4.9	5.0	5.4	6.0	7.0	7.0	8.1
120 ~ 140	4.2	4.5	5.0	5.1	5.2	5.5	6.2	7.1	7.1	8.2
140 ~ 160	4.2	4.6	5.1	5.2	5.3	5.6	6.3	7.3	7.3	8.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/325
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	354/324

Constants of dn/dt		
D ₀	D ₁	D ₂
3.12E-06	9.87E-09	-1.45E-11
E ₀	E ₁	λ_{TK}
7.63E-07	6.00E-10	2.65E-01