

H-LaF72	720460	$n_d = 1.72000$	$v_d = 46.02$	$n_F - n_C = 0.015645$
		$n_e = 1.72372$	$v_e = 45.77$	$n_{F'} - n_{C'} = 0.015811$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.68194
n_{1970}	1970.09	1.68799
n_{1530}	1529.58	1.69476
n_{1129}	1128.64	1.70111
n_{1064}	1064.00	1.70232
n_t	1013.98	1.70333
n_s	852.11	1.70732
$n_{A'}$	768.19	1.71011
n_r	706.52	1.71271
n_C	656.27	1.71533
$n_{C'}$	643.85	1.71607
n_{He-Ne}	632.80	1.71676
n_D	589.29	1.71987
n_d	587.56	1.72000
n_e	546.07	1.72372
n_F	486.13	1.73097
$n_{F'}$	479.99	1.73188
n_g	435.84	1.73981
n_h	404.66	1.74732
n_i	365.01	1.76051

Relative Partial Dispersion	
$P_{d,C}$	0.2985
$P_{e,d}$	0.2378
$P_{g,F}$	0.5650
$P'_{d,c'}$	0.2486
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.5015

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D_W	1
D_A	3
R_{OH} (S)	1
RP (S)	2

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.902	0.806
2200	0.982	0.949
2000	0.993	0.986
1800	0.998	0.996
1600	0.998	0.996
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.998	0.996
480	0.997	0.994
460	0.995	0.992
440	0.993	0.987
420	0.988	0.982
400	0.978	0.964
390	0.967	0.946
380	0.948	0.910
370	0.908	0.839
360	0.826	0.698
350	0.638	0.423
340	0.303	0.098
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0014
$\Delta P_{g,F}$	-0.0021
$\Delta P_{C,t}$	0.0039
$\Delta P_{C,s}$	0.0011

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	60
-40/-30	63
-30/-20	64
-20/-10	65
-10/0	66
0/10	67
10/20	68
20/30	70
30/40	70
40/50	71
50/60	71
60/70	72
70/80	72
80/90	73
90/100	74
100/110	75
110/120	76
120/130	77
130/140	78
140/150	79
150/160	80

Thermal Properties	
T_g ($^{\circ}C$)	660
T_s ($^{\circ}C$)	692
$T_{10}^{14.5}$ ($^{\circ}C$)	584
T_{10}^{13} ($^{\circ}C$)	628
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	67
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	82
λ (W/(m·K))	0.98

Mechanical Properties	
HK ($10^7 Pa$)	585
F_A	128
E (GPa)	98.1
G (GPa)	38.4
μ	0.277
σ_b (MPa)	70
B ($10^{-12}/Pa$)	1.77

Constants of Dispersion Formula	
A_0	2.89068995E+00
A_1	-1.22258397E-02
A_2	2.34463603E-02
A_3	3.98991928E-04
A_4	2.73296394E-05
A_5	1.01579894E-07

Density		Solarization	
ρ (g/cm ³)	3.88	$\Delta\lambda$ (%)	-1.2

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	2.9	3.2	3.2	3.3	3.5	3.6	4.2	4.3	4.7
-40~-20	2.7	3.0	3.2	3.3	3.3	3.5	3.6	4.2	4.3	4.8
-20~0	2.7	3.0	3.2	3.3	3.4	3.6	3.8	4.2	4.3	4.9
0~20	2.7	3.0	3.2	3.3	3.4	3.6	3.8	4.2	4.3	5.0
20~40	2.7	3.1	3.3	3.3	3.4	3.6	3.9	4.3	4.4	5.1
40~60	2.7	3.1	3.4	3.4	3.5	3.7	4.1	4.3	4.4	5.2
60~80	2.8	3.2	3.5	3.5	3.6	3.8	4.1	4.5	4.6	5.3
80~100	2.9	3.2	3.6	3.6	3.7	3.9	4.1	4.7	4.8	5.4
100~120	2.9	3.3	3.7	3.7	3.8	4.0	4.3	4.9	5.0	5.5
120~140	2.9	3.4	3.8	3.8	3.9	4.1	4.5	5.1	5.2	5.7
140~160	3.0	3.5	3.9	4.0	4.0	4.3	4.6	5.2	5.3	5.8

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	366/337

Constants of dn/dt		
D_0	D_1	D_2
1.36E-06	1.16E-08	-1.71E-11
E_0	E_1	λ_{TK}
6.48E-07	4.94E-10	1.99E-01