

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

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	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
$n_r$	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

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

Density	
$\rho$ (g/cm <sup>3</sup> )	3.97

Solarization	
$\Delta\lambda$ (%)	-0.3

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

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

Thermal Properties	
Tg (°C)	656
Ts (°C)	682
T <sub>10</sub> <sup>14.5</sup> (°C)	589
T <sub>10</sub> <sup>13</sup> (°C)	625
$\alpha_{50/80^\circ C}$ (10 <sup>-7</sup> /K)	62
$\alpha_{100/300^\circ C}$ (10 <sup>-7</sup> /K)	74
$\lambda$ (W/(m·K))	1.11

Mechanical Properties	
HK (10 <sup>7</sup> Pa)	563
F <sub>A</sub>	118
E (GPa)	103.1
G (GPa)	39.3
$\mu$	0.310
$\sigma_b$ (MPa)	69.1
B (10 <sup>-12</sup> /Pa)	1.84

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D <sub>W</sub>	1
D <sub>A</sub>	4
R <sub>OH</sub> (S)	1
RP (S)	1

Expansion Coefficient $\alpha$ (×10 <sup>-7</sup> /K)	
°C	$\alpha$
-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

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
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		

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

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 <sup>-6</sup> / °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

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
1.58E-06	1.15E-08	-2.00E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
4.02E-07	5.35E-10	3.07E-01