

<b>H-LaF50</b>	<b>773496</b>	$n_d = 1.77250$	$v_d = 49.60$	$n_F - n_C = 0.015575$
		$n_e = 1.77621$	$v_e = 49.36$	$n_{F'} - n_{C'} = 0.015725$

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	2325.42	1.73108
$n_{1970}$	1970.09	1.73821
$n_{1530}$	1529.58	1.74604
$n_{1129}$	1128.64	1.75310
$n_{1064}$	1064.00	1.75439
$n_t$	1013.98	1.75547
$n_s$	852.11	1.75963
$n_{A'}$	768.19	1.76250
$n_r$	706.52	1.76514
$n_C$	656.27	1.76780
$n_{C'}$	643.85	1.76854
$n_{He-Ne}$	632.80	1.76924
$n_D$	589.29	1.77236
$n_d$	587.56	1.77250
$n_e$	546.07	1.77621
$n_F$	486.13	1.78337
$n_{F'}$	479.99	1.78427
$n_g$	435.84	1.79197
$n_h$	404.66	1.79916
$n_i$	365.01	1.81154

Constants of Dispersion Formula	
$A_0$	3.07395250E+00
$A_1$	-1.50954523E-02
$A_2$	2.31138211E-02
$A_3$	8.38501873E-04
$A_4$	-5.02227252E-05
$A_5$	3.23074191E-06

Density		Solarization	
$\rho$ (g/cm <sup>3</sup> )	4.27	$\Delta\lambda$ (%)	-0.5

Relative Partial Dispersion	
$P_{d,C}$	0.3018
$P_{e,d}$	0.2382
$P_{g,F}$	0.5522
$P'_{d,c'}$	0.2518
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4897

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0031
$\Delta P_{g,F}$	-0.0090
$\Delta P_{C,t}$	0.0112
$\Delta P_{C,s}$	0.0051

Thermal Properties	
Tg (°C)	685
Ts (°C)	708
T <sub>10</sub> <sup>14.5</sup> (°C)	622
T <sub>10</sub> <sup>13</sup> (°C)	668
$\alpha_{50/80^\circ C}$ (10 <sup>-7</sup> /K)	59
$\alpha_{100/300^\circ C}$ (10 <sup>-7</sup> /K)	73
$\lambda$ (W/(m·K))	1.01

Mechanical Properties	
HK (10 <sup>7</sup> Pa)	698
F <sub>A</sub>	61
E (GPa)	120.9
G (GPa)	46.6
$\mu$	0.298
$\sigma_b$ (MPa)	60
B (10 <sup>-12</sup> /Pa)	1.46

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

Expansion Coefficient $\alpha$ (×10 <sup>-7</sup> /K)	
°C	$\alpha$
-50/-40	52
-40/-30	55
-30/-20	56
-20/-10	57
-10/0	58
0/10	59
10/20	60
20/30	61
30/40	61
40/50	62
50/60	62
60/70	63
70/80	63
80/90	65
90/100	66
100/110	67
110/120	68
120/130	69
130/140	70
140/150	71
150/160	72

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.853	0.728
2200	0.974	0.949
2000	0.999	0.998
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	0.999	0.998
480	0.999	0.998
460	0.999	0.998
440	0.999	0.998
420	0.999	0.998
400	0.996	0.992
390	0.992	0.984
380	0.986	0.972
370	0.977	0.955
360	0.960	0.922
350	0.932	0.869
340	0.886	0.785
330	0.815	0.564
320	0.695	0.380
310	0.481	0.160
300	0.173	0.017
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/305
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	342/303

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
4.06E-06	1.23E-08	-2.71E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
2.85E-07	2.10E-10	3.13E-01

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	4.0	4.2	4.4	4.4	4.5	4.6	4.8	4.9	5.0	5.7
-40~-20	4.1	4.2	4.5	4.5	4.5	4.6	4.8	5.2	5.4	5.9
-20~0	4.2	4.3	4.5	4.5	4.6	4.9	5.0	5.3	5.4	6.1
0~20	4.2	4.4	4.6	4.6	4.6	4.8	5.1	5.4	5.5	6.1
20~40	4.2	4.5	4.6	4.6	4.6	4.8	5.2	5.6	5.6	6.3
40~60	4.3	4.5	4.7	4.8	4.7	4.9	5.2	5.7	5.7	6.3
60~80	4.3	4.5	4.7	4.8	4.8	4.9	5.2	5.7	5.8	6.3
80~100	4.4	4.6	4.7	4.8	4.9	5.0	5.3	5.8	5.9	6.5
100~120	4.4	4.7	4.8	4.8	5.0	5.0	5.3	5.9	6.0	6.5
120~140	4.6	4.8	4.9	4.9	5.1	5.1	5.5	6.0	6.0	6.6
140~160	4.7	4.8	4.9	5.0	5.1	5.2	5.5	6.1	6.1	6.6