

<b>H-LaK1</b>	<b>660574</b>	$n_d = 1.65950$	$v_d = 57.35$	$n_F - n_C = 0.011500$
		$n_e = 1.66224$	$v_e = 57.13$	$n_{F'} - n_{C'} = 0.011592$

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	2325.42	1.62649
$n_{1970}$	1970.09	1.63247
$n_{1530}$	1529.58	1.63901
$n_{1129}$	1128.64	1.64475
$n_{1064}$	1064.00	1.64577
$n_t$	1013.98	1.64660
$n_s$	852.11	1.64983
$n_{A'}$	768.19	1.65202
$n_r$	706.52	1.65403
$n_C$	656.27	1.65600
$n_{C'}$	643.85	1.65655
$n_{He-Ne}$	632.80	1.65707
$n_D$	589.29	1.65939
$n_d$	587.56	1.65950
$n_e$	546.07	1.66224
$n_F$	486.13	1.66750
$n_{F'}$	479.99	1.66814
$n_g$	435.84	1.67376
$n_h$	404.66	1.67897
$n_i$	365.01	1.68783

Constants of Dispersion Formula	
$A_0$	2.70733270E+00
$A_1$	-1.20058561E-02
$A_2$	1.64047722E-02
$A_3$	4.17032662E-04
$A_4$	-1.43172608E-05
$A_5$	7.78703513E-07

Density		Solarization	
$\rho$ (g/cm <sup>3</sup> )	3.64	$\Delta\lambda$ (%)	-2.8

Relative Partial Dispersion	
$P_{d,C}$	0.3043
$P_{e,d}$	0.2383
$P_{g,F}$	0.5443
$P'_{d,c'}$	0.2545
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4848

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	-0.0040
$\Delta P_{C,t}$	-0.0006
$\Delta P_{C,s}$	-0.0015

Thermal Properties	
T <sub>g</sub> (°C)	651
T <sub>s</sub> (°C)	685
T <sub>10</sub> <sup>14.5</sup> (°C)	588
T <sub>10</sub> <sup>13</sup> (°C)	617
$\alpha_{50/80^\circ C}$ (10 <sup>-7</sup> /K)	65
$\alpha_{100/300^\circ C}$ (10 <sup>-7</sup> /K)	81
$\lambda$ (W/(m·K))	0.82

Mechanical Properties	
HK (10 <sup>7</sup> Pa)	581
F <sub>A</sub>	112
E (GPa)	90.9
G (GPa)	35.7
$\mu$	0.273
$\sigma_b$ (MPa)	84.8
B (10 <sup>-12</sup> /Pa)	1.50

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

Expansion Coefficient $\alpha$ (×10 <sup>-7</sup> /K)	
°C	$\alpha$
-50/-40	59
-40/-30	61
-30/-20	63
-20/-10	64
-10/0	64
0/10	65
10/20	65
20/30	66
30/40	67
40/50	67
50/60	67
60/70	68
70/80	68
80/90	69
90/100	70
100/110	71
110/120	72
120/130	73
130/140	74
140/150	75
150/160	76

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.873	0.762
2200	0.954	0.910
2000	0.993	0.986
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	0.997	0.995
400	0.995	0.992
390	0.993	0.987
380	0.990	0.981
370	0.981	0.970
360	0.968	0.947
350	0.950	0.910
340	0.918	0.852
330	0.868	0.762
320	0.796	0.641
310	0.697	0.495
300	0.581	0.346
290	0.460	0.217
280	0.343	0.122

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	350/270
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	334/272

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	1.6	1.9	2.1	2.1	2.1	2.2	2.3	2.5	2.6	3.0
-40 ~ -20	1.7	1.9	2.0	2.0	2.0	2.1	2.3	2.6	2.7	3.0
-20 ~ 0	1.6	1.9	2.1	2.1	2.1	2.2	2.3	2.6	2.7	3.0
0 ~ 20	1.6	1.9	2.1	2.2	2.2	2.2	2.3	2.6	2.7	3.1
20 ~ 40	1.6	1.9	2.1	2.1	2.1	2.1	2.4	2.7	2.8	3.1
40 ~ 60	1.6	2.0	2.2	2.2	2.2	2.3	2.4	2.7	2.8	3.2
60 ~ 80	1.8	2.1	2.2	2.2	2.2	2.4	2.5	2.7	2.9	3.3
80 ~ 100	1.9	2.1	2.2	2.2	2.2	2.4	2.5	2.8	2.9	3.4
100 ~ 120	1.9	2.2	2.3	2.3	2.3	2.5	2.6	2.9	3.0	3.5
120 ~ 140	2.0	2.3	2.4	2.4	2.4	2.6	2.7	3.0	3.1	3.6
140 ~ 160	2.1	2.4	2.5	2.5	2.5	2.7	2.8	3.1	3.2	3.7

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
1.09E-07	1.22E-08	-1.85E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
2.95E-07	1.37E-10	2.81E-01