

<b>H-F13</b>	<b>626357</b>	$n_d = 1.62588$	$v_d = 35.70$	$n_F - n_C = 0.017532$
		$n_e = 1.63003$	$v_e = 35.43$	$n_{F'} - n_{C'} = 0.017780$

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	2325.42	1.58752
$n_{1970}$	1970.09	1.59329
$n_{1530}$	1529.58	1.59977
$n_{1129}$	1128.64	1.60594
$n_{1064}$	1064.00	1.60713
$n_t$	1013.98	1.60814
$n_s$	852.11	1.61220
$n_{A'}$	768.19	1.61513
$n_r$	706.52	1.61790
$n_C$	656.27	1.62074
$n_{C'}$	643.85	1.62155
$n_{He-Ne}$	632.80	1.62231
$n_D$	589.29	1.62573
$n_d$	587.56	1.62588
$n_e$	546.07	1.63003
$n_F$	486.13	1.63828
$n_{F'}$	479.99	1.63933
$n_g$	435.84	1.64860
$n_h$	404.66	1.65768
$n_i$	365.01	1.67466

Constants of Dispersion Formula	
$A_0$	2.57590334E+00
$A_1$	-1.10109986E-02
$A_2$	2.05548046E-02
$A_3$	1.79594369E-03
$A_4$	-1.78465029E-04
$A_5$	1.57736814E-05

Density		Solarization	
$\rho$ (g/cm <sup>3</sup> )	2.72	$\Delta\lambda$ (%)	0.0

Relative Partial Dispersion	
$P_{d,C}$	0.2932
$P_{e,d}$	0.2367
$P_{g,F}$	0.5886
$P'_{d,c'}$	0.2435
$P'_{e,d}$	0.2334
$P'_{g,F'}$	0.5214

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0043
$\Delta P_{C,t}$	0.0056
$\Delta P_{C,s}$	0.0010

Thermal Properties	
T <sub>g</sub> (°C)	596
T <sub>s</sub> (°C)	639
T <sub>10</sub> <sup>14.5</sup> (°C)	522
T <sub>10</sub> <sup>13</sup> (°C)	566
$\alpha_{50/80^\circ C}$ (10 <sup>-7</sup> /K)	75
$\alpha_{100/300^\circ C}$ (10 <sup>-7</sup> /K)	93
$\lambda$ (W/(m·K))	1.19

Mechanical Properties	
HK (10 <sup>7</sup> Pa)	546
F <sub>A</sub>	123
E (GPa)	80.4
G (GPa)	32.4
$\mu$	0.240
$\sigma_b$ (MPa)	70.6
B (10 <sup>-12</sup> /Pa)	3.04

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

Expansion Coefficient $\alpha$ (×10 <sup>-7</sup> /K)	
°C	$\alpha$
-50/-40	72
-40/-30	74
-30/-20	75
-20/-10	76
-10/0	76
0/10	77
10/20	77
20/30	77
30/40	78
40/50	78
50/60	78
60/70	78
70/80	79
80/90	80
90/100	81
100/110	82
110/120	83
120/130	85
130/140	86
140/150	87
150/160	88

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.945	0.893
2200	0.948	0.899
2000	0.982	0.964
1800	0.984	0.968
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	0.996	0.993
480	0.994	0.989
460	0.992	0.984
440	0.989	0.978
420	0.982	0.967
400	0.967	0.936
390	0.941	0.890
380	0.877	0.772
370	0.699	0.490
360	0.308	0.098
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	382/358

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	2.8	3.1	3.4	3.4	3.5	3.6	3.9	4.7	4.8	5.4
-40 ~ -20	2.8	3.1	3.4	3.4	3.5	3.7	4.0	4.7	4.8	5.5
-20 ~ 0	2.8	3.2	3.4	3.5	3.5	3.7	4.1	4.8	4.9	5.7
0 ~ 20	2.7	3.2	3.4	3.5	3.5	3.8	4.1	4.9	4.9	5.9
20 ~ 40	2.8	3.3	3.5	3.6	3.6	3.8	4.2	5.0	5.0	6.0
40 ~ 60	2.8	3.3	3.5	3.6	3.6	3.9	4.4	5.1	5.2	6.1
60 ~ 80	3.0	3.4	3.6	3.7	3.7	4.1	4.5	5.3	5.3	6.3
80 ~ 100	3.0	3.5	3.7	3.8	3.8	4.3	4.6	5.3	5.3	6.5
100 ~ 120	3.2	3.7	3.9	4.0	4.0	4.4	4.8	5.4	5.4	6.6
120 ~ 140	3.3	3.8	4.0	4.1	4.2	4.5	4.8	5.5	5.6	6.7
140 ~ 160	3.4	3.9	4.0	4.1	4.2	4.7	5.0	5.6	5.7	6.9

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
2.09E-06	1.35E-08	-1.84E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
6.50E-07	3.82E-10	2.92E-01