

<b>H-PK65</b>	<b>620639</b>	$n_d = 1.61997$	$v_d = 63.88$	$n_F - n_C = 0.009705$
		$n_e = 1.62228$	$v_e = 63.58$	$n_{F'} - n_{C'} = 0.009787$

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	2325.42	1.59263
$n_{1970}$	1970.09	1.59750
$n_{1530}$	1529.58	1.60283
$n_{1129}$	1128.64	1.60756
$n_{1064}$	1064.00	1.60841
$n_t$	1013.98	1.60912
$n_s$	852.11	1.61182
$n_{A'}$	768.19	1.61366
$n_r$	706.52	1.61534
$n_C$	656.27	1.61701
$n_{C'}$	643.85	1.61748
$n_{He-Ne}$	632.80	1.61792
$n_D$	589.29	1.61988
$n_d$	587.56	1.61997
$n_e$	546.07	1.62228
$n_F$	486.13	1.62672
$n_{F'}$	479.99	1.62727
$n_g$	435.84	1.63198
$n_h$	404.66	1.63633
$n_i$	365.01	1.64372

Constants of Dispersion Formula	
$A_0$	2.58545747E+00
$A_1$	-9.52904974E-03
$A_2$	1.36602628E-02
$A_3$	3.41551059E-04
$A_4$	-1.52997403E-05
$A_5$	7.30579296E-07

Density	
$\rho$ (g/cm <sup>3</sup> )	3.52

Solarization	
$\Delta\lambda$ (%)	-1.9

Relative Partial Dispersion	
$P_{d,C}$	0.3050
$P_{e,d}$	0.2380
$P_{g,F}$	0.5420
$P'_{d,c'}$	0.2544
$P'_{e,d}$	0.2360
$P'_{g,F'}$	0.4813

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0026
$\Delta P_{g,F}$	0.0045
$\Delta P_{C,t}$	-0.0367
$\Delta P_{C,s}$	-0.0189

Thermal Properties	
T <sub>g</sub> (°C)	568
T <sub>s</sub> (°C)	594
T <sub>10</sub> <sup>14.5</sup> (°C)	515
T <sub>10</sub> <sup>13</sup> (°C)	555
$\alpha_{-50/80^\circ C}$ (10 <sup>-7</sup> /K)	103
$\alpha_{100/300^\circ C}$ (10 <sup>-7</sup> /K)	118
$\lambda$ (W/(m·K))	0.61

Mechanical Properties	
HK (10 <sup>7</sup> Pa)	420
F <sub>A</sub>	315
E (GPa)	77.8
G (GPa)	29.5
$\mu$	0.317
$\sigma_b$ (MPa)	37.9
B (10 <sup>-12</sup> /Pa)	1.03

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)	2

Expansion Coefficient $\alpha$ (×10 <sup>-7</sup> /K)	
°C	$\alpha$
-50/-40	94
-40/-30	96
-30/-20	97
-20/-10	98
-10/0	99
0/10	99
10/20	100
20/30	100
30/40	102
40/50	102
50/60	103
60/70	103
70/80	104
80/90	104
90/100	105
100/110	105
110/120	106
120/130	107
130/140	108
140/150	109
150/160	110

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.957	0.916
2200	0.979	0.958
2000	0.995	0.990
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	0.997	0.992
460	0.995	0.986
440	0.993	0.980
420	0.991	0.974
400	0.989	0.967
390	0.982	0.952
380	0.966	0.922
370	0.943	0.871
360	0.897	0.785
350	0.821	0.655
340	0.711	0.489
330	0.577	0.320
320	0.437	0.183
310	0.320	0.097
300	0.235	0.053
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	365/295
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	335/278

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

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
-1.00E-05	9.01E-09	-2.64E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
3.58E-07	1.03E-10	2.54E-01