

H-ZK9	620603	$n_d = 1.62041$	$v_d = 60.34$	$n_F - n_C = 0.010281$
		$n_e = 1.62286$	$v_e = 60.10$	$n_{F'} - n_{C'} = 0.010363$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.58900
n_{1970}	1970.09	1.59500
n_{1530}	1529.58	1.60147
n_{1129}	1128.64	1.60697
n_{1064}	1064.00	1.60793
n_t	1013.98	1.60871
n_s	852.11	1.61168
$n_{A'}$	768.19	1.61367
n_r	706.52	1.61547
n_C	656.27	1.61727
$n_{C'}$	643.85	1.61777
n_{He-Ne}	632.80	1.61824
n_D	589.29	1.62032
n_d	587.56	1.62041
n_e	546.07	1.62286
n_F	486.13	1.62755
$n_{F'}$	479.99	1.62813
n_g	435.84	1.63310
n_h	404.66	1.63768
n_i	365.01	1.64550

Constants of Dispersion Formula	
A_0	2.58664805E+00
A_1	-1.18712170E-02
A_2	1.32307928E-02
A_3	7.82598611E-04
A_4	-8.48132791E-05
A_5	4.75039380E-06

Density		Solarization	
ρ (g/cm ³)	3.57	$\Delta\lambda$ (%)	-4.9

Relative Partial Dispersion	
$P_{d,C}$	0.3054
$P_{e,d}$	0.2383
$P_{g,F}$	0.5398
$P'_{d,c'}$	0.2548
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4796

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0035
$\Delta P_{C,t}$	0.0001
$\Delta P_{C,s}$	-0.0015

Thermal Properties	
T _g (°C)	652
T _s (°C)	685
T ₁₀ ^{14.5} (°C)	585
T ₁₀ ¹³ (°C)	620
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	60
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	76
λ (W/(m·K))	0.96

Mechanical Properties	
HK (10 ⁷ Pa)	543
F _A	131
E (GPa)	86.2
G (GPa)	36.6
μ	0.281
σ_b (MPa)	87.3
B (10 ⁻¹² /Pa)	1.99

Chemical Properties (grade)	
RC (S)	1
RA (S)	2
D _W	2
D _A	4
R _{OH} (S)	3
RP (S)	2

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	55
-40/-30	57
-30/-20	59
-20/-10	60
-10/0	61
0/10	63
10/20	63
20/30	64
30/40	65
40/50	65
50/60	66
60/70	67
70/80	67
80/90	68
90/100	68
100/110	69
110/120	70
120/130	70
130/140	71
140/150	72
150/160	73

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.861	0.741
2200	0.943	0.889
2000	0.985	0.970
1800	0.996	0.992
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	0.995	0.990
400	0.992	0.984
390	0.989	0.978
380	0.986	0.972
370	0.979	0.958
360	0.962	0.925
350	0.929	0.863
340	0.887	0.787
330	0.825	0.681
320	0.730	0.533
310	0.599	0.359
300	0.443	0.196
290	0.286	0.082
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/300
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	342/287

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 ⁻⁶ / °C)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	1.7	1.9	2.1	2.1	2.1	2.2	2.4	2.6	2.6	2.8
-40 ~ -20	1.8	1.9	2.1	2.2	2.3	2.3	2.3	2.6	2.6	2.9
-20 ~ 0	1.8	1.9	2.2	2.2	2.2	2.3	2.4	2.6	2.6	2.9
0 ~ 20	1.8	2.0	2.2	2.2	2.2	2.3	2.4	2.6	2.7	2.9
20 ~ 40	1.9	2.1	2.2	2.2	2.2	2.4	2.6	2.8	2.8	3.0
40 ~ 60	2.0	2.1	2.3	2.3	2.3	2.5	2.7	2.9	2.9	3.1
60 ~ 80	2.0	2.1	2.3	2.3	2.4	2.6	2.8	2.9	2.9	3.1
80 ~ 100	2.1	2.1	2.5	2.5	2.5	2.7	2.9	3.0	3.0	3.2
100 ~ 120	2.1	2.2	2.5	2.6	2.7	2.8	3.1	3.1	3.1	3.3
120 ~ 140	2.3	2.3	2.5	2.6	2.7	2.8	3.2	3.3	3.4	3.5
140 ~ 160	2.3	2.4	2.7	2.7	2.7	2.9	3.3	3.5	3.7	3.8

Constants of dn/dt		
D ₀	D ₁	D ₂
1.99E-07	1.26E-08	-1.82E-11
E ₀	E ₁	λ_{TK}
4.96E-07	5.23E-10	2.17E-08