

H-ZK10N	623570	$n_d = 1.62280$	$v_d = 56.98$	$n_F - n_C = 0.010931$
		$n_e = 1.62541$	$v_e = 56.74$	$n_{F'} - n_{C'} = 0.011023$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.59301
n_{1970}	1970.09	1.59824
n_{1530}	1529.58	1.60395
n_{1129}	1128.64	1.60905
n_{1064}	1064.00	1.60998
n_t	1013.98	1.61074
n_s	852.11	1.61371
$n_{A'}$	768.19	1.61574
n_r	706.52	1.61761
n_C	656.27	1.61948
$n_{C'}$	643.85	1.62002
n_{He-Ne}	632.80	1.62051
n_D	589.29	1.62270
n_d	587.56	1.62280
n_e	546.07	1.62541
n_F	486.13	1.63042
$n_{F'}$	479.99	1.63104
n_g	435.84	1.63639
n_h	404.66	1.64136
n_i	365.01	1.64991

Constants of Dispersion Formula	
A_0	2.59016969E+00
A_1	-1.02103680E-02
A_2	1.46213934E-02
A_3	6.92375177E-04
A_4	-6.66173315E-05
A_5	4.03789352E-06

Density		Solarization	
ρ (g/cm ³)	3.64	$\Delta\lambda$ (%)	-0.7

Relative Partial Dispersion	
$P_{d,C}$	0.3037
$P_{e,d}$	0.2388
$P_{g,F}$	0.5462
$P'_{d,c'}$	0.2522
$P'_{e,d}$	0.2368
$P'_{g,F'}$	0.4853

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0028
$\Delta P_{C,t}$	-0.0167
$\Delta P_{C,s}$	-0.0093

Thermal Properties	
Tg (°C)	661
Ts (°C)	705
T ₁₀ ^{14.5} (°C)	595
T ₁₀ ¹³ (°C)	638
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	66
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	80
λ (W/(m·K))	0.80

Mechanical Properties	
HK (10 ⁷ Pa)	521
F _A	153
E (GPa)	81.9
G (GPa)	32.4
μ	0.265
σ_b (MPa)	61.7
B (10 ⁻¹² /Pa)	1.88

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	57
-40/-30	59
-30/-20	61
-20/-10	62
-10/0	62
0/10	63
10/20	64
20/30	64
30/40	65
40/50	66
50/60	67
60/70	67
70/80	68
80/90	69
90/100	70
100/110	71
110/120	72
120/130	73
130/140	74
140/150	76
150/160	77

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.914	0.825
2200	0.963	0.923
2000	0.996	0.984
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	0.994	0.992
390	0.991	0.981
380	0.986	0.972
370	0.971	0.943
360	0.942	0.888
350	0.860	0.740
340	0.740	0.547
330	0.515	0.265
320	0.221	0.049
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	353/320

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	2.0	2.2	2.3	2.3	2.4	2.5	2.7	3.0	3.1	3.2
-40 ~ -20	2.1	2.2	2.3	2.3	2.4	2.5	2.7	3.0	3.1	3.3
-20 ~ 0	2.1	2.3	2.3	2.3	2.4	2.5	2.7	3.1	3.1	3.4
0 ~ 20	2.1	2.3	2.4	2.4	2.5	2.6	2.8	3.2	3.2	3.5
20 ~ 40	2.1	2.3	2.5	2.5	2.6	2.7	2.9	3.2	3.3	3.6
40 ~ 60	2.1	2.4	2.6	2.6	2.7	2.8	2.9	3.4	3.4	3.7
60 ~ 80	2.2	2.5	2.6	2.7	2.8	3.0	3.0	3.4	3.4	3.7
80 ~ 100	2.3	2.6	2.7	2.8	2.9	3.0	3.1	3.5	3.5	3.8
100 ~ 120	2.4	2.7	2.8	2.9	3.0	3.1	3.2	3.6	3.6	3.8
120 ~ 140	2.4	2.7	2.9	2.9	3.0	3.1	3.2	3.6	3.6	3.8
140 ~ 160	2.5	2.8	2.9	3.0	3.1	3.3	3.4	3.7	3.7	4.0

Constants of dn/dt		
D ₀	D ₁	D ₂
6.89E-07	1.42E-08	-2.56E-11
E ₀	E ₁	λ_{TK}
3.07E-10	1.53E-10	1.41E-01