

H-BaK8	573575	$n_d = 1.57250$	$v_d = 57.49$	$n_F - n_C = 0.009959$
		$n_e = 1.57487$	$v_e = 57.20$	$n_{F'} - n_{C'} = 0.010051$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.54549
n_{1970}	1970.09	1.55016
n_{1530}	1529.58	1.55531
n_{1129}	1128.64	1.55993
n_{1064}	1064.00	1.56078
n_t	1013.98	1.56148
n_s	852.11	1.56419
$n_{A'}$	768.19	1.56606
n_r	706.52	1.56777
n_C	656.27	1.56948
$n_{C'}$	643.85	1.56996
n_{He-Ne}	632.80	1.57041
n_D	589.29	1.57241
n_d	587.56	1.57250
n_e	546.07	1.57487
n_F	486.13	1.57944
$n_{F'}$	479.99	1.58001
n_g	435.84	1.58490
n_h	404.66	1.58941
n_i	365.01	1.59715

Constants of Dispersion Formula	
A_0	2.43375651E+00
A_1	-8.82982376E-03
A_2	1.35916939E-02
A_3	3.60922117E-04
A_4	-1.79584197E-05
A_5	1.11930116E-06

Density		Solarization	
ρ (g/cm ³)	3.17	$\Delta\lambda$ (%)	-13.3

Relative Partial Dispersion	
$P_{d,C}$	0.3032
$P_{e,d}$	0.2380
$P_{g,F}$	0.5482
$P'_{d,c'}$	0.2527
$P'_{e,d}$	0.2358
$P'_{g,F'}$	0.4865

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	0.0001
$\Delta P_{C,t}$	-0.0154
$\Delta P_{C,s}$	-0.0072

Thermal Properties	
T _g (°C)	614
T _s (°C)	664
T ₁₀ ^{14.5} (°C)	549
T ₁₀ ¹³ (°C)	592
$\alpha_{-50/80^\circ C}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	86
λ (W/(m·K))	0.94

Mechanical Properties	
HK (10 ⁷ Pa)	527
F _A	127
E (GPa)	72.3
G (GPa)	29.1
μ	0.243
σ_b (MPa)	78.3
B (10 ⁻¹² /Pa)	2.56

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	66
-40/-30	68
-30/-20	69
-20/-10	70
-10/0	71
0/10	72
10/20	72
20/30	73
30/40	74
40/50	74
50/60	74
60/70	75
70/80	75
80/90	76
90/100	77
100/110	77
110/120	78
120/130	79
130/140	80
140/150	82
150/160	83

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.931	0.866
2200	0.952	0.910
2000	0.984	0.966
1800	0.992	0.985
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	0.999	0.998
400	0.999	0.998
390	0.999	0.998
380	0.997	0.995
370	0.995	0.990
360	0.991	0.983
350	0.983	0.967
340	0.964	0.930
330	0.930	0.866
320	0.863	0.744
310	0.751	0.558
300	0.576	0.329
290	0.344	0.120
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	335/285
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	324/284

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	2.4	2.4	2.4	2.5	2.8	3.1	3.1	3.3
-40 ~ -20	2.1	2.2	2.5	2.5	2.5	2.5	2.8	3.1	3.1	3.4
-20 ~ 0	2.0	2.2	2.5	2.5	2.5	2.6	2.8	3.1	3.1	3.5
0 ~ 20	2.0	2.1	2.5	2.5	2.5	2.6	2.8	3.1	3.1	3.6
20 ~ 40	2.1	2.3	2.6	2.6	2.7	2.8	2.9	3.3	3.3	3.6
40 ~ 60	2.2	2.5	2.7	2.8	2.8	2.9	3.1	3.4	3.4	3.8
60 ~ 80	2.4	2.6	2.8	2.9	2.9	3.0	3.3	3.5	3.6	3.9
80 ~ 100	2.5	2.7	2.9	3.0	3.0	3.2	3.3	3.6	3.7	4.0
100 ~ 120	2.6	2.8	3.1	3.2	3.2	3.3	3.5	3.7	3.8	4.1
120 ~ 140	2.8	3.0	3.2	3.3	3.4	3.5	3.6	3.7	3.8	4.2
140 ~ 160	2.9	3.1	3.3	3.3	3.4	3.5	3.6	3.7	3.8	4.2

Constants of dn/dt		
D ₀	D ₁	D ₂
9.63E-07	1.65E-08	-1.99E-11
E ₀	E ₁	λ_{TK}
5.81E-07	-1.28E-10	1.29E-01