

H-ZBaF10	618498	$n_d = 1.61773$	$v_d = 49.83$	$n_F - n_C = 0.012397$
		$n_e = 1.62068$	$v_e = 49.54$	$n_{F'} - n_{C'} = 0.012529$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.58640
n_{1970}	1970.09	1.59159
n_{1530}	1529.58	1.59734
n_{1129}	1128.64	1.60261
n_{1064}	1064.00	1.60359
n_t	1013.98	1.60441
n_s	852.11	1.60761
$n_{A'}$	768.19	1.60985
n_r	706.52	1.61192
n_C	656.27	1.61401
$n_{C'}$	643.85	1.61460
n_{He-Ne}	632.80	1.61515
n_D	589.29	1.61762
n_d	587.56	1.61773
n_e	546.07	1.62068
n_F	486.13	1.62641
$n_{F'}$	479.99	1.62713
n_g	435.84	1.63335
n_h	404.66	1.63923
n_i	365.01	1.64953

Constants of Dispersion Formula	
A_0	2.56767884E+00
A_1	-1.00060261E-02
A_2	1.66107744E-02
A_3	6.51052393E-04
A_4	-4.11297812E-05
A_5	3.35427062E-06

Density	
ρ (g/cm ³)	3.16

Solarization	
$\Delta\lambda$ (%)	-1.2

Relative Partial Dispersion	
$P_{d,C}$	0.3001
$P_{e,d}$	0.2380
$P_{g,F}$	0.5598
$P'_{d,c'}$	0.2498
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4964

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0010
$\Delta P_{C,t}$	-0.0072
$\Delta P_{C,s}$	-0.0037

Thermal Properties	
T _g (°C)	627
T _s (°C)	672
T ₁₀ ^{14.5} (°C)	548
T ₁₀ ¹³ (°C)	590
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	72
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	86
λ (W/(m·K))	0.90

Mechanical Properties	
HK (10 ⁷ Pa)	539
F _A	142
E (GPa)	86.1
G (GPa)	34.1
μ	0.263
σ_b (MPa)	82.5
B (10 ⁻¹² /Pa)	2.12

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	65
-40/-30	68
-30/-20	70
-20/-10	71
-10/0	72
0/10	73
10/20	74
20/30	75
30/40	76
40/50	77
50/60	78
60/70	78
70/80	78
80/90	79
90/100	80
100/110	80
110/120	81
120/130	82
130/140	83
140/150	84
150/160	85

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.918	0.844
2200	0.952	0.908
2000	0.982	0.965
1800	0.992	0.984
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	0.994
460	0.995	0.992
440	0.993	0.988
420	0.990	0.982
400	0.984	0.970
390	0.972	0.947
380	0.944	0.893
370	0.892	0.800
360	0.770	0.597
350	0.518	0.273
340	0.167	0.038
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	385/345
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	370/341

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	2.1	2.3	2.5	2.5	2.6	2.7	2.9	3.3	3.3	3.8
-40 ~ -20	2.1	2.3	2.5	2.5	2.6	2.7	3.0	3.3	3.4	3.8
-20 ~ 0	2.1	2.3	2.5	2.6	2.6	2.8	3.0	3.4	3.5	3.9
0 ~ 20	2.1	2.4	2.5	2.6	2.6	2.8	3.1	3.4	3.5	4.0
20 ~ 40	2.2	2.4	2.6	2.6	2.7	2.9	3.1	3.5	3.6	4.0
40 ~ 60	2.3	2.5	2.7	2.7	2.7	2.9	3.1	3.6	3.8	4.1
60 ~ 80	2.3	2.7	2.8	2.9	2.9	3.0	3.3	3.7	3.8	4.3
80 ~ 100	2.5	2.8	2.9	3.0	3.0	3.2	3.3	3.7	3.8	4.3
100 ~ 120	2.5	2.8	3.0	3.1	3.1	3.2	3.4	3.8	3.9	4.4
120 ~ 140	2.7	2.9	3.1	3.1	3.1	3.3	3.5	3.9	3.9	4.5
140 ~ 160	2.7	3.0	3.2	3.2	3.3	3.4	3.6	4.0	4.1	4.7

Constants of dn/dt		
D ₀	D ₁	D ₂
9.42E-07	1.44E-08	-2.13E-11
E ₀	E ₁	λ_{TK}
4.74E-07	3.62E-11	2.61E-01