

H-ZBaF21	723380	$n_d = 1.72341$	$v_d = 37.99$	$n_F - n_C = 0.019041$
		$n_e = 1.72793$	$v_e = 37.72$	$n_F - n_C = 0.019297$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.68318
n_{1970}	1970.09	1.68884
n_{1530}	1529.58	1.69529
n_{1129}	1128.64	1.70170
n_{1064}	1064.00	1.70299
n_t	1013.98	1.70407
n_s	852.11	1.70850
$n_{A'}$	768.19	1.71169
n_f	706.52	1.71471
n_C	656.27	1.71781
$n_{C'}$	643.85	1.71869
n_{He-Ne}	632.80	1.71952
n_D	589.29	1.72325
n_d	587.56	1.72341
n_e	546.07	1.72793
n_F	486.13	1.73685
$n_{F'}$	479.99	1.73798
n_g	435.84	1.74793
n_h	404.66	1.75759
n_i	365.01	1.77526

Relative Partial Dispersion	
$P_{d,C}$	0.2941
$P_{e,d}$	0.2374
$P_{g,F}$	0.5819
$P'_{d,c'}$	0.2446
$P'_{e,d}$	0.2342
$P'_{g,F'}$	0.5156

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.949	0.901
2200	0.980	0.960
2000	0.992	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	0.995	0.989
480	0.993	0.986
460	0.990	0.981
440	0.987	0.974
420	0.980	0.961
400	0.959	0.920
390	0.932	0.868
380	0.873	0.762
370	0.739	0.547
360	0.463	0.215
350	0.131	0.017
340		
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	0.0014
$\Delta P_{C,t}$	-0.0026
$\Delta P_{C,s}$	-0.0026

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	58
-40/-30	61
-30/-20	63
-20/-10	63
-10/0	65
0/10	65
10/20	66
20/30	67
30/40	68
40/50	68
50/60	69
60/70	69
70/80	70
80/90	71
90/100	71
100/110	72
110/120	73
120/130	75
130/140	76
140/150	77
150/160	78

Thermal Properties	
T _g ($^{\circ}C$)	614
T _s ($^{\circ}C$)	666
T ₁₀ ^{14.5} ($^{\circ}C$)	558
T ₁₀ ¹³ ($^{\circ}C$)	596
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	67
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	83
λ (W/(m K))	0.98

Constants of Dispersion Formula	
A ₀	2.88881294E+00
A ₁	-1.12014238E-02
A ₂	2.61117044E-02
A ₃	1.31652955E-03
A ₄	-9.02985011E-05
A ₅	1.01643068E-05

Mechanical Properties	
HK (10^7 Pa)	565
F _A	158
E (GPa)	100.6
G (GPa)	39.4
μ	0.276
σ_b (MPa)	90
B (10^{-12} /Pa)	1.98

Density		Solarization	
ρ (g/cm ³)	3.61	$\Delta\lambda$ (%)	-0.3

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	3.6	4.0	4.4	4.4	4.5	4.7	5.0	5.7	5.8	6.6
-40 ~ -20	3.7	4.1	4.4	4.4	4.5	4.7	5.1	5.7	5.8	6.6
-20 ~ 0	3.6	4.2	4.5	4.5	4.5	4.7	5.2	5.8	5.9	6.7
0 ~ 20	3.6	4.3	4.5	4.5	4.6	4.8	5.2	5.8	6.0	6.8
20 ~ 40	3.7	4.3	4.5	4.5	4.6	4.8	5.2	5.9	6.0	6.8
40 ~ 60	3.7	4.3	4.5	4.5	4.6	4.9	5.3	6.1	6.2	7.0
60 ~ 80	3.7	4.5	4.7	4.7	4.8	5.0	5.4	6.2	6.3	7.3
80 ~ 100	3.8	4.5	4.7	4.8	4.9	5.1	5.5	6.3	6.4	7.4
100 ~ 120	3.9	4.7	4.8	4.9	5.0	5.1	5.4	6.5	6.6	7.5
120 ~ 140	4.0	4.8	4.9	4.9	5.1	5.2	5.6	6.6	6.7	7.6
140 ~ 160	4.1	4.9	5.0	5.0	5.2	5.3	5.7	6.7	6.8	7.7

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	400/355
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	383/355

Constants of dn/dt		
D ₀	D ₁	D ₂
3.29E-06	1.22E-08	-2.04E-11
E ₀	E ₁	λ_{TK}
6.43E-07	3.41E-10	2.74E-01