

H-ZBaF65	654397	$n_d = 1.65412$	$v_d = 39.68$	$n_F - n_C = 0.016484$
		$n_e = 1.65803$	$v_e = 39.46$	$n_{F'} - n_{C'} = 0.016678$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.61564
n_{1970}	1970.09	1.62166
n_{1530}	1529.58	1.62838
n_{1129}	1128.64	1.63471
n_{1064}	1064.00	1.63592
n_t	1013.98	1.63693
n_s	852.11	1.64097
$n_{A'}$	768.19	1.64383
n_f	706.52	1.64651
n_C	656.27	1.64922
$n_{C'}$	643.85	1.65000
n_{He-Ne}	632.80	1.65072
n_D	589.29	1.65397
n_d	587.56	1.65412
n_e	546.07	1.65803
n_F	486.13	1.66571
$n_{F'}$	479.99	1.66668
n_g	435.84	1.67515
n_h	404.66	1.68327
n_i	365.01	1.69784

Relative Partial Dispersion	
$P_{d,C}$	0.2973
$P_{e,d}$	0.2372
$P_{g,F}$	0.5727
$P'_{d,c'}$	0.2470
$P'_{e,d}$	0.2344
$P'_{g,f'}$	0.5079

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.917	0.840
2200	0.950	0.900
2000	0.987	0.974
1800	0.993	0.986
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	0.998	0.996
460	0.997	0.994
440	0.996	0.992
420	0.994	0.990
400	0.991	0.983
390	0.988	0.974
380	0.977	0.958
370	0.957	0.919
360	0.899	0.813
350	0.751	0.568
340	0.401	0.164
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0050
$\Delta P_{C,t}$	0.0132
$\Delta P_{C,s}$	0.0049

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	66
-40/-30	69
-30/-20	71
-20/-10	72
-10/0	73
0/10	74
10/20	75
20/30	75
30/40	76
40/50	77
50/60	78
60/70	78
70/80	79
80/90	79
90/100	80
100/110	81
110/120	82
120/130	83
130/140	84
140/150	85
150/160	85

Thermal Properties	
T _g ($^{\circ}C$)	609
T _s ($^{\circ}C$)	665
T ₁₀ ^{14.5} ($^{\circ}C$)	549
T ₁₀ ¹³ ($^{\circ}C$)	590
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	74
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	89
λ (W/(m K))	1.13

Constants of Dispersion Formula	
A ₀	2.66955809E+00
A ₁	-1.17053780E-02
A ₂	2.16385159E-02
A ₃	1.09755393E-03
A ₄	-7.38357886E-05
A ₅	6.82335888E-06

Mechanical Properties	
HK (10^7 Pa)	565
F _A	141
E (GPa)	92.0
G (GPa)	37.0
μ	0.243
σ_b (MPa)	88
B (10^{-12} /Pa)	2.77

Density		Solarization	
ρ (g/cm ³)	3.01	$\Delta\lambda$ (%)	-1.6

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	2.0	2.4	2.7	2.8	2.9	3.1	3.3	3.7	3.8	4.6
-40 ~ -20	2.1	2.5	2.7	2.8	2.9	3.2	3.5	3.8	3.9	4.8
-20 ~ 0	2.4	2.7	2.9	2.9	3.0	3.3	3.5	3.9	3.9	4.9
0 ~ 20	2.6	2.9	3.1	3.1	3.2	3.5	3.6	4.1	4.1	4.9
20 ~ 40	2.7	3.0	3.2	3.2	3.3	3.6	3.7	4.3	4.3	5.1
40 ~ 60	2.7	3.0	3.3	3.3	3.4	3.7	4.0	4.6	4.6	5.4
60 ~ 80	2.9	3.1	3.3	3.3	3.4	3.9	4.3	4.8	4.8	5.6
80 ~ 100	3.0	3.2	3.4	3.5	3.6	4.0	4.4	5.0	5.0	5.8
100 ~ 120	3.2	3.4	3.6	3.7	3.8	4.1	4.5	5.2	5.2	6.0
120 ~ 140	3.3	3.5	3.8	3.9	4.0	4.3	4.6	5.3	5.3	6.1
140 ~ 160	3.4	3.6	3.9	4.0	4.1	4.4	4.8	5.3	5.4	6.3

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/335
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	360/336

Constants of dn/dt		
D ₀	D ₁	D ₂
1.44E-06	1.63E-08	-2.55E-11
E ₀	E ₁	λ_{TK}
5.71E-07	3.95E-10	2.77E-01