H-ZBaF52 670472

$n_d = 1.67003$	$\upsilon_d = 47.20$	$n_F - n_C = 0.014197$
$n_e = 1.67340$	$\upsilon_e = 46.90$	$n_{F'} - n_{C'} = 0.014358$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.63652
n_{1970}	1970.09	1.64169
n_{1530}	1529.58	1.64750
n_{1129}	1128.64	1.65305
n_{1064}	1064.00	1.65411
n_t	1013.98	1.65500
n_s	852.11	1.65856
$n_{A'}$	768.19	1.66107
n_r	706.52	1.66342
n_C	656.27	1.66579
$n_{C'}$	643.85	1.66646
n_{He-Ne}	632.80	1.66709
n_D	589.29	1.66990
n_d	587.56	1.67003
n_e	546.07	1.67340
n_F	486.13	1.67999
$n_{F'}$	479.99	1.68082
n_g	435.84	1.68798
n_h	404.66	1.69475
n_i	365.01	1.70662

Relative Partial Dispersion	
$P_{d,C}$	0.2987
$P_{e,d}$	0.2374
$P_{g,F}$	0.5628
$P'_{d,c'}$	0.2486
$P'_{e,d}$	0.2347
$P'_{g,F'}$	0.4987

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	-0.0024
$\Delta P_{C,t}$	-0.0088
$\Delta P_{C,s}$	-0.0044

Thermal Properties	
Tg (℃)	605
Ts (℃)	649
$T_{10}^{14.5}$ (℃)	539
T_{10}^{13} (℃)	582
$\alpha_{-50/80℃}$ (10^{-7}/K)	67
$\alpha_{100/300℃}$ (10^{-7}/K)	83
λ (W/(m·K))	1.08

Mechanical Properties	
HK (10^7Pa)	626
F_A	151
E (GPa)	96.3
G (GPa)	37.6
μ	0.279
σ_b (MPa)	70.2
B (10^{-12}/Pa)	1.90

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D_W	1
D_A	1
R_{OH} (S)	1
RP (S)	1

Expansion Coefficient α ($\times 10^{-7}$/K)	
℃	α
-50/-40	55
-40/-30	59
-30/-20	62
-20/-10	64
-10/0	66
0/10	68
10/20	70
20/30	71
30/40	72
40/50	73
50/60	73
60/70	74
70/80	74
80/90	75
90/100	76
100/110	77
110/120	77
120/130	78
130/140	79
140/150	81
150/160	82

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.938	0.877
2200	0.970	0.944
2000	0.989	0.978
1800	0.993	0.987
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	0.998	0.996
480	0.996	0.993
460	0.995	0.991
440	0.994	0.988
420	0.992	0.983
400	0.983	0.967
390	0.973	0.947
380	0.952	0.907
370	0.909	0.826
360	0.807	0.652
350	0.596	0.355
340	0.269	0.072
330		
320		
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	2.72917137E+00
A_1	-1.01247435E-02
A_2	2.03135768E-02
A_3	5.48969301E-04
A_4	-1.03383424E-05
A_5	1.79727765E-06

Density	
ρ (g/cm^3)	3.49

Solarization	
△λ (%)	-1.0

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative ($\times 10^{-6}$ / ℃)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	3.5	3.9	4.1	4.2	4.3	4.5	4.7	5.2	5.2	5.6
-40 ~ -20	3.5	3.8	4.1	4.2	4.3	4.5	4.7	5.2	5.2	5.6
-20 ~ 0	3.6	3.9	4.1	4.2	4.2	4.5	4.7	5.2	5.3	5.8
0 ~ 20	3.6	3.9	4.1	4.2	4.2	4.5	4.7	5.2	5.3	5.8
20 ~ 40	3.6	3.9	4.0	4.1	4.3	4.5	4.7	5.3	5.4	5.9
40 ~ 60	3.6	4.0	4.1	4.2	4.3	4.5	4.8	5.4	5.5	6.0
60 ~ 80	3.6	4.0	4.1	4.2	4.3	4.6	4.9	5.5	5.6	6.2
80 ~ 100	3.6	4.0	4.2	4.3	4.4	4.6	4.9	5.7	5.8	6.3
100 ~ 120	3.7	4.1	4.4	4.5	4.5	4.6	5.1	6.0	6.1	6.4
120 ~ 140	3.7	4.1	4.5	4.6	4.6	4.7	5.1	6.1	6.2	6.5
140 ~ 160	3.8	4.2	4.6	4.7	4.7	4.7	5.2	6.3	6.4	6.7

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	369/340

Constants of dn/dt		
D_0	D_1	D_2
3.13E-06	9.94E-09	-1.48E-11
E_0	E_1	λ_{TK}
6.71E-07	8.33E-10	2.17E-01