

H-ZBaF52 670472	$n_d = 1.67003$	$\nu_d = 47.20$	$n_F - n_C = 0.014197$
	$n_e = 1.67340$	$\nu_e = 46.90$	$n_{F'} - n_{C'} = 0.014358$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	1.65307
n_t	1013.98	1.65501
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
$n_{\text{He-Ne}}$	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	1.68799
n_h	404.66	1.69474
n_i	365.01	1.70661

Constants of Dispersion Formula	
A_0	2.72905350E+00
A_1	-9.97056093E-03
A_2	2.02894175E-02
A_3	5.81692207E-04
A_4	-1.72786190E-05
A_5	2.21799911E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2986	$P'_{d,C'}$	0.2486
$P_{e,d}$	0.2373	$P'_{e,d}$	0.2347
$P_{g,F}$	0.5634	$P'_{g,F'}$	0.4993

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative (10 ⁻⁶ / °C)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	3.6	4.2	4.3	4.5	4.7	5.2	5.7
-20 ~ 0	3.6	4.2	4.3	4.4	4.7	5.2	5.8
0 ~ 20	3.6	4.2	4.2	4.4	4.7	5.3	5.9
20 ~ 40	3.5	4.2	4.2	4.4	4.7	5.3	5.9
40 ~ 60	3.5	4.2	4.3	4.5	4.8	5.4	6.0
60 ~ 80	3.6	4.4	4.4	4.6	4.9	5.5	6.2

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

Thermal Properties	
T _g (°C)	592
T _s (°C)	658
T ₁₀ ^{14.5} (°C)	539
T ₁₀ ¹³ (°C)	582
$\alpha_{-50/80^\circ\text{C}}$ (10 ⁻⁷ /K)	67
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	83

Mechanical Properties	
HK(10 ⁷ Pa)	626
F _A	151
E(10 ⁷ Pa)	9448
G(10 ⁷ Pa)	3704
μ	0.275
B(nm/cm/10 ⁵ Pa)	2.110

Density	
ρ (g/cm ³)	3.49

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0018
$\Delta P_{C,t}$	-0.0097
$\Delta P_{C,s}$	-0.0045

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
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
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	0.993	0.990
440	0.991	0.984
420	0.985	0.972
400	0.967	0.942
390	0.948	0.903
380	0.911	0.833
370	0.837	0.707
360	0.693	0.492
350	0.444	0.206
340	0.145	0.030
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/340

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	369/340