

H-ZBaF50 658509	$n_d = 1.65844$	$\nu_d = 50.85$	$n_F - n_C = 0.012948$
	$n_e = 1.66152$	$\nu_e = 50.57$	$n_{F'} - n_{C'} = 0.013082$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.62814
n_{1970}	1970.09	1.63271
n_{1530}	1529.58	1.63788
n_{1129}	1128.64	1.64287
n_t	1013.98	1.64465
n_s	852.11	1.64791
$n_{A'}$	768.19	1.65022
n_r	706.52	1.65237
n_C	656.27	1.65455
$n_{C'}$	643.85	1.65517
$n_{\text{He-Ne}}$	632.80	1.65574
n_D	589.29	1.65832
n_d	587.56	1.65844
n_e	546.07	1.66152
n_F	486.13	1.66750
$n_{F'}$	479.99	1.66825
n_g	435.84	1.67474
n_h	404.66	1.68083
n_i	365.01	1.69138

Constants of Dispersion Formula	
A_0	2.69509646E+00
A_1	-8.83641184E-03
A_2	1.90568938E-02
A_3	3.56927846E-04
A_4	4.98046796E-06
A_5	5.04893095E-07

Relative Partial Dispersions			
$P_{d,C}$	0.3004	$P'_{d,C'}$	0.2500
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2355
$P_{g,F}$	0.5591	$P'_{g,F'}$	0.4962

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative ($10^{-6} / ^\circ\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	2.4	3.0	3.0	3.2	3.4	3.9	4.4
-20 ~ 0	2.4	3.0	3.1	3.2	3.5	3.9	4.5
0 ~ 20	2.4	3.0	3.1	3.2	3.5	4.0	4.5
20 ~ 40	2.4	3.0	3.0	3.2	3.5	4.0	4.5
40 ~ 60	2.4	3.1	3.1	3.3	3.5	4.1	4.6
60 ~ 80	2.5	3.2	3.2	3.4	3.7	4.3	4.9

Chemical Properties (grade)	
RC(S)	1
RA(S)	3
D_W	1
D_A	3
$R_{OH}(S)$	2
RP(S)	2

Thermal Properties	
$T_g(^{\circ}\text{C})$	634
$T_s(^{\circ}\text{C})$	691
$T_{10}^{14.5}(^{\circ}\text{C})$	572
$T_{10}^{13}(^{\circ}\text{C})$	630
$\alpha_{-50/80^{\circ}\text{C}}(10^{-7}/\text{K})$	74
$\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$	86

Mechanical Properties	
HK(10^7Pa)	520
F_A	132
$E(10^7\text{Pa})$	8633
$G(10^7\text{Pa})$	3370
μ	0.281
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.900

Density	
$\rho(\text{g}/\text{cm}^3)$	3.90

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0001
$\Delta P_{C,t}$	-0.0220
$\Delta P_{C,s}$	-0.0097

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.937	0.880
2200	0.971	0.946
2000	0.993	0.982
1800	0.995	0.992
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	0.999	0.998
480	0.999	0.998
460	0.998	0.996
440	0.997	0.994
420	0.996	0.992
400	0.994	0.989
390	0.984	0.968
380	0.966	0.933
370	0.930	0.866
360	0.858	0.738
350	0.716	0.513
340	0.471	0.223
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/335

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	360/330