

<b>H-ZBaF20      702412</b>	$n_d = 1.70154$	$v_d = 41.15$	$n_F - n_C = 0.017049$
	$n_e = 1.70559$	$v_e = 40.86$	$n_{F'} - n_{C'} = 0.017270$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	
$n_{1970}$	1970.09	
$n_{1530}$	1529.58	
$n_{1129}$	1128.64	
$n_t$	1013.98	
$n_s$	852.11	
$n_{A'}$	768.19	
$n_r$	706.52	1.69372
$n_C$	656.27	1.69651
$n_{C'}$	643.85	1.69730
$n_{\text{He-Ne}}$	632.80	1.69804
$n_D$	589.29	1.70139
$n_d$	587.56	1.70154
$n_e$	546.07	1.70559
$n_F$	486.13	1.71356
$n_{F'}$	479.99	1.71457
$n_g$	435.84	1.72339
$n_h$	404.66	1.73189
$n_i$	365.01	1.74719

Constants of Dispersion Formula	
$A_0$	2.81669473E+00
$A_1$	-6.11591070E-03
$A_2$	2.70206971E-02
$A_3$	1.07241344E-04
$A_4$	5.85408110E-05
$A_5$	1.00740939E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2950	$P'_{d,C'}$	0.2455
$P_{e,d}$	0.2375	$P'_{e,d}$	0.2345
$P_{g,F}$	0.5765	$P'_{g,F'}$	0.5107

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	2.7	3.9	4.0	4.3	5.0	5.7	6.3
-20 ~ 0	2.9	4.1	4.2	4.4	4.8	5.6	6.2
0 ~ 20	3.6	4.3	4.4	4.6	4.9	5.5	6.2
20 ~ 40	4.0	4.7	4.6	4.8	5.0	5.8	6.9
40 ~ 60	4.3	4.6	4.9	5.1	5.3	6.0	7.1
60 ~ 80	4.5	4.8	5.1	5.4	5.3	6.6	7.8

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

Thermal Properties	
$T_g(^{\circ}\text{C})$	577
$T_s(^{\circ}\text{C})$	640
$T_{10}^{14.5}(^{\circ}\text{C})$	550
$T_{10}^{13}(^{\circ}\text{C})$	570
$\alpha_{-50/80^{\circ}\text{C}}(10^{-7}/\text{K})$	70
$\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$	88

Mechanical Properties	
HK( $10^7\text{Pa}$ )	620
$F_A$	125
$E(10^7\text{Pa})$	9679
$G(10^7\text{Pa})$	3820
$\mu$	0.267
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.210

Density	
$\rho(\text{g}/\text{cm}^3)$	3.64

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	0.0013
$\Delta P_{C,t}$	
$\Delta P_{C,s}$	

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.930	0.865
2200	0.964	0.929
2000	0.993	0.986
1800	0.997	0.994
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	0.996	0.992
460	0.993	0.986
440	0.990	0.980
420	0.986	0.973
400	0.974	0.949
390	0.959	0.921
380	0.927	0.861
370	0.850	0.725
360	0.657	0.437
350	0.277	0.082
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/350

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