

<b>H-ZBaF10      618498</b>	$n_d = 1.61773$	$\nu_d = 49.83$	$n_F - n_C = 0.012397$
	$n_e = 1.62068$	$\nu_e = 49.54$	$n_{F'} - n_{C'} = 0.012529$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.58640
$n_{1970}$	1970.09	1.59159
$n_{1530}$	1529.58	1.59734
$n_{1129}$	1128.64	1.60261
$n_t$	1013.98	1.60441
$n_s$	852.11	1.60761
$n_{A'}$	768.19	1.60985
$n_r$	706.52	1.61192
$n_C$	656.27	1.61401
$n_{C'}$	643.85	1.61460
$n_{\text{He-Ne}}$	632.80	1.61515
$n_D$	589.29	1.61762
$n_d$	587.56	1.61773
$n_e$	546.07	1.62068
$n_F$	486.13	1.62641
$n_{F'}$	479.99	1.62713
$n_g$	435.84	1.63335
$n_h$	404.66	1.63923
$n_i$	365.01	1.64953

Constants of Dispersion Formula	
$A_0$	2.56767884E+00
$A_1$	-1.00060261E-02
$A_2$	1.66107744E-02
$A_3$	6.51052393E-04
$A_4$	-4.11297812E-05
$A_5$	3.35427062E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3000	$P'_{d,C'}$	0.2498
$P_{e,d}$	0.2379	$P'_{e,d}$	0.2354
$P_{g,F}$	0.5597	$P'_{g,F'}$	0.4964

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative (10 <sup>-6</sup> / °C)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	2.1	2.5	2.6	2.7	2.9	3.3	3.8
-20 ~ 0	2.1	2.6	2.6	2.7	2.9	3.4	3.9
0 ~ 20	2.1	2.6	2.6	2.8	3.0	3.5	3.9
20 ~ 40	2.1	2.6	2.7	2.8	3.0	3.5	4.0
40 ~ 60	2.2	2.7	2.7	2.9	3.1	3.6	4.2
60 ~ 80	2.3	2.9	2.9	3.1	3.3	3.8	4.4

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
D <sub>W</sub>	1
D <sub>A</sub>	2
R <sub>OH</sub> (S)	2
RP(S)	1

Thermal Properties	
T <sub>g</sub> (°C)	607
T <sub>s</sub> (°C)	673
T <sub>10</sub> <sup>14.5</sup> (°C)	548
T <sub>10</sub> <sup>13</sup> (°C)	590
$\alpha_{-50/80^\circ\text{C}}$ (10 <sup>-7</sup> /K)	72
$\alpha_{100/300^\circ\text{C}}$ (10 <sup>-7</sup> /K)	86

Mechanical Properties	
HK(10 <sup>7</sup> Pa)	539
F <sub>A</sub>	142
E(10 <sup>7</sup> Pa)	8211
G(10 <sup>7</sup> Pa)	3284
$\mu$	0.250
B(nm/cm/10 <sup>5</sup> Pa)	2.050

Density	
$\rho$ (g/cm <sup>3</sup> )	3.16

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0006
$\Delta P_{g,F}$	-0.0012
$\Delta P_{C,t}$	-0.0074
$\Delta P_{C,s}$	-0.0039

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.918	0.844
2200	0.952	0.908
2000	0.982	0.965
1800	0.992	0.984
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	0.997	0.994
460	0.995	0.992
440	0.993	0.988
420	0.990	0.982
400	0.984	0.970
390	0.972	0.947
380	0.944	0.893
370	0.892	0.800
360	0.770	0.597
350	0.518	0.273
340	0.167	0.038
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	385/345

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