

H-ZBaF5 671473

$n_d = 1.67103$	$\nu_d = 47.29$	$n_F - n_C = 0.014190$
$n_e = 1.67440$	$\nu_e = 46.99$	$n_{F'} - n_{C'} = 0.014353$

Refractive Indices		
	$\lambda(\text{nm})$	
n_r	706.5	1.66441
n_C	656.3	1.66679
$n_{C'}$	643.8	1.66745
$n_{\text{He-Ne}}$	632.8	1.66808
n_D	589.3	1.67090
n_d	587.6	1.67103
n_e	546.1	1.67440
n_F	486.1	1.68098
$n_{F'}$	480.0	1.68181
n_g	435.8	1.68897
n_h	404.7	1.69576
n_i	365.0	1.70771

Chemical Properties (grade)	
RC(S)	1
RA(S)	3
D_W	1
D_A	2

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.943	0.889
2200	0.971	0.942
2000	0.986	0.972
1800	0.992	0.984
1600	0.998	0.997
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	0.998	0.997
850	0.998	0.996
800	0.995	0.991
700	0.995	0.990
650	0.995	0.990
600	0.994	0.989
550	0.994	0.989
500	0.992	0.985
480	0.991	0.983
460	0.990	0.980
440	0.988	0.976
420	0.985	0.971
400	0.976	0.953
390	0.964	0.930
380	0.941	0.886
370	0.890	0.800
360	0.790	0.630
350	0.580	0.340
340	0.230	0.060
330		
320		
310		
300		
290		
280		

Thermal Properties	
$T_g(^{\circ}\text{C})$	583
$T_s(^{\circ}\text{C})$	652
$T_{10}^{14.5}(^{\circ}\text{C})$	540
$T_{10}^{13}(^{\circ}\text{C})$	580
$\alpha_{20/120^{\circ}\text{C}} (10^{-7}/\text{K})$	73
$\alpha_{20/300^{\circ}\text{C}} (10^{-7}/\text{K})$	85
$\lambda(\text{W}/\text{m}\cdot\text{K})$	

Constants of Dispersion Formula	
A_0	2.7316187
A_1	$-9.5729254 \times 10^{-3}$
A_2	2.0749141×10^{-2}
A_3	4.6899105×10^{-4}
A_4	-7.830578×10^{-6}
A_5	2.2593351×10^{-6}

Mechanical Properties	
$H_K(10^7\text{Pa})$	626
F_A	
$E(10^7\text{Pa})$	9696
$G(10^7\text{Pa})$	3807
μ	0.273
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion			
$P_{d,c}$	0.2998	$P'_{d,c'}$	0.2493
$P_{e,d}$	0.2375	$P'_{e,d'}$	0.2347
$P_{g,F}$	0.5631	$P'_{g,F'}$	0.4986

Anomalous dispersions	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0020

Range of Temperature ($^{\circ}\text{C}$)	Temperature Coefficients of Refractive Index						
	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40~-20							
-20~0							
0~20							
20~40							
40~60							
60~80							

Density	
$\rho(\text{g}/\text{cm}^3)$	3.58

Coloration Code			
λ_{80}/λ_5	38/34	λ_{70}/λ_5	