

H-BaF5 606437	$n_d = 1.60562$	$\nu_d = 43.70$	$n_F - n_c = 0.013857$
	$n_e = 1.60891$	$\nu_e = 43.41$	$n_{F'} - n_{c'} = 0.014026$

Refractive Indices		
	$\lambda(\text{nm})$	
n_t	706.5	1.59921
n_c	656.3	1.60151
$n_{c'}$	643.8	1.60215
$n_{\text{He-Ne}}$	632.8	1.60276
n_D	589.3	1.60550
n_d	587.6	1.60562
n_e	546.1	1.60891
n_F	486.1	1.61536
$n_{F'}$	480.0	1.61618
n_g	435.8	1.62329
n_h	404.7	1.63010
n_i	365.0	1.64228

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

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400		
2200		
2000		
1800		
1600		
1400		
1200		
1060		
1000		
950		
900		
850	0.999	0.997
800	0.999	0.997
700	0.999	0.997
650	0.999	0.997
600	0.999	0.997
550	0.999	0.997
500	0.998	0.995
480	0.996	0.991
460	0.994	0.987
440	0.992	0.984
420	0.984	0.968
400	0.964	0.929
390	0.937	0.878
380	0.887	0.787
370	0.787	0.619
360	0.581	0.338
350	0.235	0.050
340		
330		
320		
310		
300		
290		
280		

Thermal Properties	
$T_g(^{\circ}\text{C})$	575
$T_s(^{\circ}\text{C})$	637
$T_{10}^{14.5}(^{\circ}\text{C})$	528
$T_{10}^{13}(^{\circ}\text{C})$	563
$\alpha_{20/120^{\circ}\text{C}} (10^{-7}/\text{K})$	80
$\alpha_{100/300^{\circ}\text{C}} (10^{-7}/\text{K})$	93
$\lambda(\text{W}/\text{m}\cdot\text{K})$	

Constants of Dispersion Formula	
A_0	2.52630120E+00
A_1	-1.25655920E-02
A_2	1.71221020E-02
A_3	8.29317930E-04
A_4	-2.95426550E-05
A_5	3.05728690E-06

Mechanical Properties	
$H_K(10^7\text{Pa})$	539
F_A	105
$E(10^7\text{Pa})$	7462
$G(10^7\text{Pa})$	2999
μ	0.244
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion			
$P_{d,c}$	0.2966	$P'_{d,c'}$	0.2474
$P_{e,d}$	0.2374	$P'_{e,d}$	0.2346
$P_{g,F}$	0.5723	$P'_{g,F'}$	0.5069

Anomalous dispersions	
$\Delta P_{F,e}$	-0.0006
$\Delta P_{g,F}$	0.0013

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	
$\rho(\text{g}/\text{cm}^3)$	2.88

Coloration Code		
λ_{80}/λ_5	38/35	λ_{70}/λ_5

Remarks