

H-BiF207 070191	$n_d = 2.07020$	$v_d = 19.07$	$n_F - n_c = 0.056130$
	$n_e = 2.08348$	$v_e = 18.89$	$n_{F'} - n_{c'} = 0.057360$

Refractive Indices		
	$\lambda(\text{nm})$	
n_t	706.5	2.04749
n_c	656.3	2.05444
$n_{c'}$	643.8	2.05677
$n_{\text{He-Ne}}$	632.8	2.05902
n_D	589.3	2.06971
n_d	587.6	2.07020
n_e	546.1	2.08348
n_F	486.1	2.11057
$n_{F'}$	480.0	2.11413
n_g	435.8	2.14670
n_h	404.7	2.17667
n_i	365.0	2.20129

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

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	0.989	0.978
800	0.983	0.966
700	0.985	0.970
650	0.978	0.956
600	0.976	0.953
550	0.973	0.947
500	0.903	0.815
480	0.751	0.564
460	0.457	0.209
440	0.125	0.016
420	0.071	0.005
400	0.823	0.677
390	0.837	0.701
380	0.845	0.714
370	0.839	0.704
360	0.830	0.689
350	0.684	0.468
340		
330		
320		
310		
300		
290		
280		

Thermal Properties	
$T_g(^{\circ}\text{C})$	438
$T_s(^{\circ}\text{C})$	458
$T_{10}^{14.5}(^{\circ}\text{C})$	
$T_{10}^{13}(^{\circ}\text{C})$	
$\alpha_{20/120^{\circ}\text{C}} (10^{-7}/\text{K})$	96
$\alpha_{100/300^{\circ}\text{C}} (10^{-7}/\text{K})$	112
$\lambda(\text{W}/\text{m}\cdot\text{K})$	

Constants of Dispersion Formula	
A_0	1.57879060E+00
A_1	1.67022913E+00
A_2	1.45078611E+00
A_3	-3.71775742E-01
A_4	5.07125677E-02
A_5	-2.63092334E-03

Mechanical Properties	
$H_K(10^7\text{Pa})$	368
F_A	
$E(10^7\text{Pa})$	
$G(10^7\text{Pa})$	
μ	
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion			
$P_{d,c}$	0.2808	$P'_{d,c'}$	0.2341
$P_{e,d}$	0.2366	$P'_{e,d}$	0.2315
$P_{g,F}$	0.6437	$P'_{g,F'}$	0.5678

Anomalous dispersions	
$\Delta P_{F,e}$	0.0030
$\Delta P_{g,F}$	0.0318

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	
$\rho(\text{g}/\text{cm}^3)$	6.68

Coloration Code			
λ_{80}/λ_5		λ_{70}/λ_5	52/45

Remarks