H-BiF210 094184

n_d = 2.09382	υ_d = 18.43	$n_F - n_c$ = 0.059340
n_e = 2.10764	υ_e = 18.28	$n_{F'} - n_{c'}$ = 0.060598

Refractive Indices		
	λ(nm)	
n_r	706.5	2.06842
n_c	656.3	2.07731
$n_{c'}$	643.8	2.07987
n_{He-Ne}	632.8	2.08227
n_D	589.3	2.09332
n_d	587.6	2.09382
n_e	546.1	2.10764
n_F	486.1	2.13665
$n_{F'}$	480.0	2.14047
n_g	435.8	2.17509
n_h	404.7	2.20841
n_i	365.0	2.25995

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

Thermal Properties	
Tg(℃)	416
Ts(℃)	446
$T_{10}^{14.5}$(℃)	
T_{10}^{13}(℃)	
$\alpha_{20/120℃}$ (10^{-7}/K)	88
$\alpha_{100/300℃}$ (10^{-7}/K)	107
λ(W/m·K)	

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400		
2200		
2000		
1800		
1600		
1400		
1200		
1060		
1000		
950		
900		
850	0.981	0.962
800	0.978	0.956
700	0.980	0.960
650	0.969	0.939
600	0.967	0.935
550	0.966	0.933
500	0.894	0.799
480	0.741	0.549
460	0.449	0.202
440	0.116	0.013
420	0.061	0.004
400	0.813	0.661
390	0.828	0.686
380	0.834	0.696
370	0.828	0.686
360	0.819	0.671
350	0.675	0.456
340		
330		
320		
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	3.90486961E+00
A_1	7.25972402E-02
A_2	2.31890251E-01
A_3	-4.78277067E-02
A_4	9.11920053E-03
A_5	-5.38202673E-04

Mechanical Properties	
H_K(10^7Pa)	356
F_A	
E(10^7Pa)	
G(10^7Pa)	
μ	
B(10^{-12}/Pa)	

Relative Partial Dispersion			
$P_{d,c}$	0.2782	$P'_{d,c'}$	0.2302
$P_{e,d}$	0.2329	$P'_{e,d}$	0.2281
$P_{g,F}$	0.6478	$P'_{g,F'}$	0.5713

Anomalous dispersions	
$\Delta P_{F,e}$	0.0089
$\Delta P_{g,F}$	0.0348

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

Density	
ρ(g/cm^3)	7.02

Coloration Code			
λ_{80}/λ_5		λ_{70}/λ_5	53/45

Remarks