

H-BaK1 530605	$n_d = 1.53028$	$v_d = 60.47$	$n_F - n_c = 0.008770$
	$n_e = 1.53237$	$v_e = 60.17$	$n_{F'} - n_{c'} = 0.008847$

Refractive Indices		
	$\lambda(\text{nm})$	
n_t	706.5	1.52608
n_c	656.3	1.52761
$n_{c'}$	643.8	1.52803
$n_{\text{He-Ne}}$	632.8	1.52843
n_D	589.3	1.53020
n_d	587.6	1.53028
n_e	546.1	1.53237
n_F	486.1	1.53638
$n_{F'}$	480.0	1.53688
n_g	435.8	1.54113
n_h	404.7	1.54508
n_i	365.0	1.55180

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	0.900	0.820
2200	0.926	0.858
2000	0.968	0.937
1800	0.986	0.972
1600	0.997	0.995
1400	0.997	0.995
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.997

Thermal Properties	
$T_g(^{\circ}\text{C})$	564
$T_s(^{\circ}\text{C})$	645
$T_{10}^{14.5}(^{\circ}\text{C})$	508
$T_{10}^{13}(^{\circ}\text{C})$	551
$\alpha_{20/120^{\circ}\text{C}} (10^{-7}/\text{K})$	74
$\alpha_{100/300^{\circ}\text{C}} (10^{-7}/\text{K})$	91
$\lambda(\text{W}/\text{m}\cdot\text{K})$	

Constants of Dispersion Formula	
A_0	2.30692290E+00
A_1	-7.73439301E-03
A_2	1.29929521E-02
A_3	-1.16419651E-04
A_4	4.03061081E-05
A_5	-1.83406761E-06

Mechanical Properties	
$H_K(10^7\text{Pa})$	471
F_A	
$E(10^7\text{Pa})$	7088
$G(10^7\text{Pa})$	2898
μ	0.223
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion			
$P_{d,c}$	0.3044	$P'_{d,c'}$	0.2542
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2362
$P_{g,F}$	0.5416	$P'_{g,F'}$	0.4802

Anomalous dispersions	
$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	-0.0015

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							

700	0.998	0.996
650	0.997	0.995
600	0.997	0.995
550	0.997	0.995
500	0.996	0.993
480	0.996	0.992
460	0.995	0.991
440	0.995	0.991
420	0.995	0.991
400	0.995	0.991
390	0.995	0.990
380	0.993	0.986
370	0.993	0.986
360	0.990	0.981
350	0.986	0.972
340	0.974	0.949
330	0.949	0.900
320	0.890	0.790
310	0.770	0.590
300	0.540	0.290
290	0.260	0.070
280	0.070	

Density	
$\rho(\text{g}/\text{cm}^3)$	2.74

Coloration Code		
λ_{80}/λ_5	33/29	λ_{70}/λ_5

Remarks