H-BaK4 552634

n_d = 1.55248	υ_d = 63.36	$n_F - n_C$ = 0.008720
n_e = 1.55456	υ_e = 63.10	$n_{F'} - n_{C'}$ = 0.008788

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	
n_t	1013.98	
n_s	852.11	
$n_{A'}$	768.19	
n_r	706.52	1.54827
n_C	656.27	1.54981
$n_{C'}$	643.85	1.55023
n_{He-Ne}	632.80	1.55063
n_D	589.29	1.55240
n_d	587.56	1.55248
n_e	546.07	1.55456
n_F	486.13	1.55853
$n_{F'}$	479.99	1.55902
n_g	435.84	1.56321
n_h	404.66	1.56707
n_i	365.01	1.57364

Constants of Dispersion Formula	
A_0	2.37780460E+00
A_1	-1.03212301E-02
A_2	1.16996571E-02
A_3	2.93353081E-04
A_4	-2.05614051E-05
A_5	1.35826601E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3062	$P'_{d,c'}$	0.2560
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2366
$P_{g,F}$	0.5367	$P'_{g,F'}$	0.4767

Chemical Properties (grade)	
RC(S)	1
RA(S)	2
D_W	3
D_A	3
R_{OH}(S)	
RP(S)	

Thermal Properties	
Tg(℃)	609
Ts(℃)	670
$T_{10}^{14.5}$(℃)	543
T_{10}^{13}(℃)	597
$\alpha_{-50/80℃}(10^{-7}/K)$	
$\alpha_{100/300℃}(10^{-7}/K)$	75

Mechanical Properties	
HK(10^7Pa)	563
F_A	
E(10^7Pa)	8429
G(10^7Pa)	3435
μ	0.227
B(nm/cm/10^5Pa)	

Density	
ρ (g/cm^3)	2.92

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	0.0000
$\triangle P_{g,F}$	-0.0017
$\triangle P_{C,t}$	
$\triangle P_{C,s}$	

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.908	0.824
2200	0.940	0.884
2000	0.985	0.970
1800	0.998	0.996
1600	0.998	0.996
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.998	0.996
480	0.998	0.996
460	0.998	0.996
440	0.998	0.996
420	0.998	0.996
400	0.998	0.996
390	0.998	0.996
380	0.995	0.990
370	0.995	0.990
360	0.988	0.976
350	0.974	0.949
340	0.946	0.895
330	0.889	0.790
320	0.784	0.615
310	0.609	0.371
300	0.379	0.144
290	0.164	0.027
280		

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							

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	340/290

Coloration of Internal Transmittance	
$\lambda\tau_{80}$	
$\lambda\tau_5$	