

BaF2	570495	$n_d = 1.56970$	$\nu_d = 49.45$	$n_F - n_C = 0.011520$
		$n_e = 1.57244$	$\nu_e = 49.12$	$n_{F'} - n_{C'} = 0.011655$

Refractive Indices		
	λ (nm)	
n_t	1014.0	1.55738
n_r	706.5	1.56431
n_c	656.3	1.56626
$n_{c'}$	643.8	1.56679
n_{He-Ne}	632.8	1.56731
n_D	589.3	1.56960
n_d	587.6	1.56970
n_e	546.1	1.57244
n_F	486.1	1.57778
$n_{F'}$	480.0	1.57845
n_g	435.8	1.58424
n_h	404.7	1.58971
n_i	365.0	1.59925

Constants of Dispersion Formula	
	Formula
A_0	2.4166725
A_1	$-7.4672552 \times 10^{-3}$
A_2	1.6866846×10^{-2}
A_3	$-1.2969727 \times 10^{-5}$
A_4	5.1599260×10^{-5}
A_5	$-1.8180361 \times 10^{-6}$

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	-0.0007

Temperature Coefficients of Refractive Index						
Range of Temperature	dn/dt relative($10^{-6}/^{\circ}C$)					
	t	C'	d	e	F'	g
-40~-20	0.7	0.9	1.0	1.3	2.1	2.5
-20~0	1.7	2.3	2.5	2.9	3.0	3.8
0~20	1.6	2.4	2.6	2.9	3.4	3.7
20~40	1.6	2.5	2.6	3.0	3.3	3.7
40~60	2.0	2.5	2.8	3.0	3.2	4.1
60~80	2.2	2.8	2.9	3.1	3.5	4.2

Relative Partial Dispersions			
$P_{d,c}$	0.2992	$P'_{d,c'}$	0.2495
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2350
$P_{g,F}$	0.5608	$P'_{g,F'}$	0.4968

Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D _W	1
D _A	1

Thermal Properties	
T_g ($^{\circ}C$)	507
T_s ($^{\circ}C$)	578
$T_{10}^{14.5}$ ($^{\circ}C$)	449
T_{10}^{13} ($^{\circ}C$)	494
$T_{10}^{7.6}$ ($^{\circ}C$)	697
$\alpha_{20/120^{\circ}C}$ ($10^{-7}/K$)	83
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	96
λ (W/m · K)	

Mechanical Properties	
H_K ($10^7 Pa$)	458
F_A	95
E ($10^7 Pa$)	6742
G ($10^7 Pa$)	2727
μ	0.236
B ($10^{-12}/Pa$)	

Other Properties	
ρ (g/cm^3)	3.14

Internal Transmittance		
λ (nm)	τ 5 mm	τ 10 mm
2400	0.926	0.86
2200	0.940	0.88
2000	0.972	0.947
1800	0.987	0.974
1600	0.999	0.998
1400	0.998	0.997
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	0.999	0.998
700	0.998	0.997
650	0.998	0.997
600	0.998	0.997
550	0.998	0.997
500	0.998	0.997
480	0.998	0.996
460	0.998	0.996
440	0.997	0.995
420	0.997	0.995
400	0.997	0.994
390	0.996	0.993
380	0.994	0.989
370	0.993	0.986
360	0.987	0.974
350	0.974	0.949
340	0.936	0.88
330	0.83	0.69
320	0.56	0.31
310	0.16	0.03
300		
290		
280		

Coloration Code	
λ_{80}/λ_5	34/31