H-BaF2	570495	n_d = 1.569700	υ_d = 49.45	$n_F - n_C$ = 0.011520
		n_e = 1.572439	υ_e = 49.16	$n_{F'} - n_{C'}$ = 0.011645

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.539905
$n_{1970.09}$	1970.09	1.545047
$n_{1529.58}$	1529.58	1.550588
$n_{1060.0}$	1060.0	1.556566
n_t	1013.98	1.557276
n_s	852.11	1.560285
n_r	706.52	1.564307
n_C	656.27	1.566248
$n_{C'}$	643.85	1.566794
n_{He-Ne}	632.8	1.567306
n_D	589.29	1.569598
n_d	587.56	1.569700
n_e	546.07	1.572439
n_F	486.13	1.577768
$n_{F'}$	479.99	1.578439
n_g	435.83	1.584238
n_h	404.66	1.589728
n_i	365.01	1.599370
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.31856447E-01
L_1	4.04229746E-02
K_2	1.28686729E+00
L_2	8.07407390E-03
K_3	1.00682520E+00
L_3	1.13574742E+02

折射率温度系数常数 Constants of dn/dt

D_0	-2.16E-06
D_1	1.57E-08
D_2	-3.10E-11
E_0	4.71E-07
E_1	6.41E-10
λ_{TK}(μm)	0.268

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2612	$P'_{s,t}$	0.2584
$P_{C,s}$	0.5176	$P'_{C',s}$	0.5590
$P_{d,C}$	0.2997	$P'_{d,C'}$	0.2495
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2352
$P_{g,F}$	0.5616	$P'_{g,F'}$	0.4980
$P_{i,h}$	0.8370	$P'_{i,h}$	0.8280

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	-0.0005	$\Delta P_{C,s}$	-0.0010
$\Delta P_{F,e}$	-0.0001	$\Delta P_{g,F}$	0.0002

着色度 Color Code

λ_{80}/λ_5	370/340
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	574
T_s (℃)	633
$T_{10}^{14.5}$ (℃)	518
T_{10}^{13} (℃)	555
$T_{10}^{7.6}$(℃)	713
$\alpha_{-30/70℃}$(10^{-7}/K)	82
$\alpha_{100/300℃}$(10^{-7}/K)	98
λ[W/(m·K)]	

化学性质 Chemical Properties

	Grade
D_W	2
D_A	1
CR	1
RC(S)	1
RA(S)	1

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.913	0.833
2200	0.930	0.875
2000	0.972	0.947
1800	0.986	0.972
1600	0.995	0.991
1400	0.994	0.989
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	0.996
600	0.998	0.996
550	0.998	0.996
500	0.997	0.995
480	0.997	0.995
460	0.997	0.994
440	0.996	0.993
420	0.996	0.992
400	0.992	0.984
390	0.986	0.973
380	0.973	0.946
370	0.941	0.886
360	0.854	0.729
350	0.624	0.389
340	0.226	0.051
330		
320		
310		
300		
290		
280		

折射率温度系数 Temperature Coefficients of Refractive Index

温度范围（℃） Range of Temperature	dn/dt relative(10^{-6}/℃)					
	t	C′	d	e	F′	g
-60～-40						
-40～-20	0.5	0.8	1.0	1.1	1.5	1.9
-20～0	0.5	1.0	1.1	1.2	1.7	2.1
0～20	0.6	1.1	1.2	1.3	1.9	2.2
20～40	0.8	1.2	1.3	1.5	2.0	2.5
40～60	0.8	1.3	1.4	1.6	2.1	2.7
60～80	0.9	1.4	1.6	1.9	2.3	2.8
80～100						
100～120						
120～140						

机械性质 Mechanical Properties

H_K (10^7Pa)	484
F_A	123
E (10^7Pa)	7437
G (10^7Pa)	3003
μ	0.238
B (10^{-12}/Pa)	2.74

其他性质 Other Properties

ρ (g/cm^3)	2.82

备注 Remarks

CDGM