H-BaF3	580537	n_d = 1.579570	υ_d = 53.71	$n_F - n_C$ = 0.010790
		n_e = 1.582139	υ_e = 53.42	$n_{F'} - n_{C'}$ = 0.010897

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.551012
$n_{1970.09}$	1970.09	1.555999
$n_{1529.58}$	1529.58	1.561357
$n_{1060.0}$	1060.0	1.567107
n_t	1013.98	1.567786
n_s	852.11	1.570660
n_r	706.52	1.574480
n_C	656.27	1.576317
$n_{C'}$	643.85	1.576833
n_{He-Ne}	632.8	1.577315
n_D	589.29	1.579474
n_d	587.56	1.579570
n_e	546.07	1.582139
n_F	486.13	1.587107
$n_{F'}$	479.99	1.587730
n_g	435.83	1.593076
n_h	404.66	1.598079
n_i	365.01	1.606714
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.16102167E+00
L_1	6.37008736E-03
K_2	9.26012255E-01
L_2	1.07341889E+02
K_3	2.90935978E-01
L_3	2.65573391E-02

折射率温度系数常数 Constants of dn/dt

D_0	3.14E-06
D_1	1.83E-08
D_2	-3.70E-11
E_0	5.37E-07
E_1	7.04E-10
λ_{TK}(μm)	0.220

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2664	$P'_{s,t}$	0.2637
$P_{C,s}$	0.5243	$P'_{C',s}$	0.5665
$P_{d,C}$	0.3015	$P'_{d,C'}$	0.2512
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2358
$P_{g,F}$	0.5532	$P'_{g,F'}$	0.4906
$P_{i,h}$	0.8003	$P'_{i,h}$	0.7924

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	-0.0087	$\Delta P_{C,s}$	-0.0045
$\Delta P_{F,e}$	0.0001	$\Delta P_{g,F}$	-0.0010

着色度 Color Code

λ_{80}/λ_5	360/330
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	595
T_s (℃)	653
$T_{10}^{14.5}$ (℃)	546
T_{10}^{13} (℃)	584
$T_{10}^{7.6}$(℃)	750
$\alpha_{-30/70℃}$(10^{-7}/K)	67
$\alpha_{100/300℃}$(10^{-7}/K)	84
λ[W/(m·K)]	

化学性质 Chemical Properties

	Grade
D_W	1
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	0.931	0.867
2200	0.953	0.908
2000	0.984	0.968
1800	0.990	0.981
1600	0.995	0.993
1400	0.994	0.988
1200	0.999	0.998
1060	0.999	0.999
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	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.998	0.997
500	0.998	0.996
480	0.998	0.996
460	0.997	0.994
440	0.996	0.993
420	0.995	0.991
400	0.995	0.990
390	0.992	0.984
380	0.987	0.974
370	0.976	0.953
360	0.947	0.896
350	0.871	0.759
340	0.682	0.465
330	0.321	0.103
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	2.8	3.2	3.3	3.5	4.0	4.4
-40～-20	2.9	3.3	3.4	3.6	4.0	4.4
-20～0	3.0	3.4	3.5	3.7	4.0	4.5
0～20	3.0	3.5	3.6	3.8	4.1	4.6
20～40	3.2	3.7	3.8	4.2	4.5	5.0
40～60	3.4	3.9	4.1	4.4	4.7	5.2
60～80	3.6	4.1	4.3	4.6	5.0	5.4
80～100	3.6	4.2	4.4	4.6	5.0	5.5
100～120	3.7	4.2	4.6	4.7	5.3	5.8
120～140	3.8	4.3	4.6	4.7	5.4	6.1

机械性质 Mechanical Properties

H_K (10^7Pa)	523
F_A	90
E (10^7Pa)	7619
G (10^7Pa)	3001
μ	0.269
B (10^{-12}/Pa)	2.95

其他性质 Other Properties

ρ (g/cm^3)	3.14

备注 Remarks

CDGM