H-BaF4	583466	n_d = 1.582670	υ_d = 46.60	$n_F - n_C$ = 0.012504
		n_e = 1.585640	υ_e = 46.30	$n_{F'} - n_{C'}$ = 0.012648

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.552244
$n_{1970.09}$	1970.09	1.557215
$n_{1529.58}$	1529.58	1.562639
$n_{1060.0}$	1060.0	1.568677
n_t	1013.98	1.569413
n_s	852.11	1.572569
n_r	706.52	1.576855
n_C	656.27	1.578942
$n_{C'}$	643.85	1.579531
n_{He-Ne}	632.8	1.580082
n_D	589.29	1.582560
n_d	587.56	1.582670
n_e	546.07	1.585640
n_F	486.13	1.591446
$n_{F'}$	479.99	1.592179
n_g	435.83	1.598534
n_h	404.66	1.604583
n_i	365.01	1.615291
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.32811418E+00
L_1	8.68510750E-03
K_2	1.26865199E-01
L_2	4.40786174E-02
K_3	1.04004826E+00
L_3	1.20899619E+02

折射率温度系数常数 Constants of dn/dt

D_0	-2.53E-06
D_1	1.58E-08
D_2	-4.13E-11
E_0	6.35E-07
E_1	4.85E-10
λ_{TK}(μm)	0.235

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2524	$P'_{s,t}$	0.2495
$P_{C,s}$	0.5097	$P'_{C',s}$	0.5504
$P_{d,C}$	0.2981	$P'_{d,C'}$	0.2482
$P_{e,d}$	0.2375	$P'_{e,d}$	0.2348
$P_{g,F}$	0.5669	$P'_{g,F'}$	0.5025
$P_{i,h}$	0.8564	$P'_{i,h}$	0.8466

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	-0.0037	$\Delta P_{C,s}$	-0.0022
$\Delta P_{F,e}$	0.0001	$\Delta P_{g,F}$	0.0005

着色度 Color Code

λ_{80}/λ_5	375/345
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	577
T_s (℃)	625
$T_{10}^{14.5}$ (℃)	516
T_{10}^{13} (℃)	555
$T_{10}^{7.6}$(℃)	726
$\alpha_{-30/70℃}$(10^{-7}/K)	82
$\alpha_{100/300℃}$(10^{-7}/K)	100
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	0.912	0.832
2200	0.932	0.869
2000	0.969	0.938
1800	0.984	0.968
1600	0.995	0.991
1400	0.996	0.993
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	0.996
700	0.998	0.996
650	0.998	0.996
600	0.997	0.995
550	0.997	0.995
500	0.997	0.995
480	0.997	0.995
460	0.996	0.993
440	0.995	0.991
420	0.995	0.990
400	0.990	0.981
390	0.983	0.967
380	0.966	0.934
370	0.925	0.855
360	0.806	0.649
350	0.506	0.256
340	0.158	0.025
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	0.3	0.7	0.9	1.2	1.5	2.0
-40～-20	0.3	0.7	1.1	1.2	1.7	2.1
-20～0	0.4	1.0	1.1	1.3	1.8	2.3
0～20	0.5	1.1	1.2	1.4	2.0	2.5
20～40	0.6	1.2	1.3	1.6	2.2	2.6
40～60	0.7	1.3	1.5	1.7	2.3	2.8
60～80	0.8	1.4	1.6	1.8	2.4	3.0
80～100	0.8	1.4	1.7	1.9	2.4	3.1
100～120	0.9	1.5	1.7	2.0	2.5	3.2
120～140	0.9	1.5	1.8	2.1	2.6	3.2

机械性质 Mechanical Properties

H_K (10^7Pa)	479
F_A	120
E (10^7Pa)	7276
G (10^7Pa)	2931
μ	0.241
B (10^{-12}/Pa)	2.59

其他性质 Other Properties

ρ (g/cm^3)	2.91

备注 Remarks

CDGM