H-BaF7	614400	n_d = 1.614130	υ_d = 39.99	$n_F - n_C$ = 0.015359
		n_e = 1.617771	υ_e = 39.71	$n_{F'} - n_{C'}$ = 0.015559

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.579434
$n_{1970.09}$	1970.09	1.584760
$n_{1529.58}$	1529.58	1.590639
$n_{1060.0}$	1060.0	1.597416
n_t	1013.98	1.598264
n_s	852.11	1.601960
n_r	706.52	1.607077
n_C	656.27	1.609596
$n_{C'}$	643.85	1.610309
n_{He-Ne}	632.8	1.610978
n_D	589.29	1.613995
n_d	587.56	1.614130
n_e	546.07	1.617771
n_F	486.13	1.624955
$n_{F'}$	479.99	1.625868
n_g	435.83	1.633849
n_h	404.66	1.641560
n_i	365.01	1.655529
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.08754258E+00
L_1	1.17535981E+02
K_2	1.41618001E+00
L_2	1.00875311E-02
K_3	1.26987130E-01
L_3	5.26006682E-02

折射率温度系数常数 Constants of dn/dt

D_0	-1.13E-06
D_1	1.51E-08
D_2	-4.77E-11
E_0	7.49E-07
E_1	5.54E-10
λ_{TK}(μm)	0.250

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2406	$P'_{s,t}$	0.2375
$P_{C,s}$	0.4972	$P'_{C',s}$	0.5366
$P_{d,C}$	0.2952	$P'_{d,C'}$	0.2456
$P_{e,d}$	0.2371	$P'_{e,d}$	0.2340
$P_{g,F}$	0.5791	$P'_{g,F'}$	0.5130
$P_{i,h}$	0.9095	$P'_{i,h}$	0.8978

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0032	$\Delta P_{C,s}$	0.0009
$\Delta P_{F,e}$	0.0000	$\Delta P_{g,F}$	0.0015

着色度 Color Code

λ_{80}/λ_5	380/350
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	587
T_s (℃)	628
$T_{10}^{14.5}$ (℃)	530
T_{10}^{13} (℃)	566
$T_{10}^{7.6}$(℃)	712
$\alpha_{-30/70℃}$(10^{-7}/K)	83
$\alpha_{100/300℃}$(10^{-7}/K)	103
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	0.942	0.888
2200	0.954	0.911
2000	0.980	0.961
1800	0.989	0.978
1600	0.996	0.993
1400	0.997	0.994
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	0.997
700	0.998	0.996
650	0.998	0.996
600	0.997	0.995
550	0.997	0.994
500	0.996	0.992
480	0.995	0.991
460	0.995	0.990
440	0.994	0.988
420	0.991	0.982
400	0.981	0.963
390	0.966	0.934
380	0.929	0.863
370	0.830	0.689
360	0.567	0.321
350	0.161	0.026
340		
330		
320		
310		
300		
290		
280		

机械性质 Mechanical Properties

H_K (10^7Pa)	507
F_A	131
E (10^7Pa)	7894
G (10^7Pa)	3180
μ	0.241
B (10^{-12}/Pa)	2.84

其他性质 Other Properties

ρ (g/cm^3)	2.88

备注 Remarks

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	0.8	1.7	1.9	2.0	2.7	3.2
-40～-20	1.0	1.7	2.0	2.0	2.9	3.3
-20～0	1.2	1.8	2.0	2.3	3.1	3.6
0～20	1.2	1.9	2.1	2.4	3.3	4.0
20～40	1.4	2.0	2.2	2.6	3.3	4.1
40～60	1.5	2.1	2.4	2.8	3.4	4.2
60～80	1.5	2.2	2.5	2.9	3.4	4.4
80～100	1.5	2.2	2.6	2.9	3.5	4.5
100～120	1.5	2.3	2.6	2.9	3.7	4.5
120～140	1.5	2.3	2.6	2.9	3.8	4.5

CDGM