H-BaF8 626391

n_d = 1.626040	υ_d = 39.07	$n_F - n_C$ = 0.016023
n_e = 1.629837	υ_e = 38.79	$n_{F'} - n_{C'}$ = 0.016236

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.590705
$n_{1970.09}$	1970.09	1.595982
$n_{1529.58}$	1529.58	1.601852
$n_{1060.0}$	1060.0	1.608723
n_t	1013.98	1.609593
n_s	852.11	1.613399
n_r	706.52	1.618701
n_C	656.27	1.621319
$n_{C'}$	643.85	1.622061
n_{He-Ne}	632.8	1.622757
n_D	589.29	1.625900
n_d	587.56	1.626040
n_e	546.07	1.629837
n_F	486.13	1.637342
$n_{F'}$	479.99	1.638297
n_g	435.83	1.646653
n_h	404.66	1.654739
n_i	365.01	1.669422
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.18828507E+00
L_1	1.28446962E+02
K_2	1.43848614E+00
L_2	1.01637552E-02
K_3	1.40002385E-01
L_3	5.24582573E-02

折射率温度系数常数 Constants of dn/dt

D_0	-1.87E-06
D_1	1.33E-08
D_2	-5.61E-11
E_0	7.52E-07
E_1	7.56E-10
λ_{TK}(μm)	0.253

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2375	$P'_{s,t}$	0.2344
$P_{C,s}$	0.4943	$P'_{C',s}$	0.5335
$P_{d,C}$	0.2946	$P'_{d,C'}$	0.2451
$P_{e,d}$	0.2370	$P'_{e,d}$	0.2339
$P_{g,F}$	0.5811	$P'_{g,F'}$	0.5147
$P_{i,h}$	0.9164	$P'_{i,h}$	0.9043

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0015	$\Delta P_{C,s}$	0.0002
$\Delta P_{F,e}$	0.0001	$\Delta P_{g,F}$	0.0019

着色度 Color Code

λ_{80}/λ_5	385/350
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	570
T_s (℃)	623
$T_{10}^{14.5}$ (℃)	521
T_{10}^{13} (℃)	555
$T_{10}^{7.6}$(℃)	702
$\alpha_{-30/70℃}$(10^{-7}/K)	86
$\alpha_{100/300℃}$(10^{-7}/K)	113
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	0.921	0.848
2200	0.941	0.886
2000	0.974	0.948
1800	0.985	0.970
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	0.997	0.995
700	0.997	0.995
650	0.996	0.992
600	0.996	0.992
550	0.996	0.992
500	0.994	0.989
480	0.994	0.989
460	0.993	0.987
440	0.991	0.983
420	0.989	0.978
400	0.979	0.958
390	0.961	0.924
380	0.923	0.852
370	0.816	0.666
360	0.544	0.296
350	0.145	0.021
340		
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	0.7	1.1	1.4	1.7	2.3	3.0
-40～-20	0.7	1.3	1.5	1.8	2.4	3.3
-20～0	0.8	1.5	1.7	1.9	2.6	3.3
0～20	0.9	1.7	2.0	2.2	3.0	3.6
20～40	1.0	1.7	2.0	2.2	3.0	3.8
40～60	1.0	1.8	2.0	2.4	3.2	3.9
60～80	1.0	1.8	2.0	2.4	3.2	4.0
80～100	1.0	1.8	2.0	2.4	3.2	4.1
100～120	0.9	1.8	2.0	2.4	3.2	4.1
120～140	0.9	1.8	2.0	2.4	3.2	4.1

机械性质 Mechanical Properties

H_K (10^7Pa)	487
F_A	136
E (10^7Pa)	7947
G (10^7Pa)	3185
μ	0.247
B (10^{-12}/Pa)	2.75

其他性质 Other Properties

ρ (g/cm^3)	2.96

备注 Remarks

CDGM