H-LaF6LA 757477

n_d = 1.757000	υ_d = 47.71	$n_F - n_C$ = 0.015866
n_e = 1.760776	υ_e = 47.47	$n_{F'} - n_{C'}$ = 0.016027

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.713767
$n_{1970.09}$	1970.09	1.721601
$n_{1529.58}$	1529.58	1.729912
$n_{1060.0}$	1060.0	1.738633
n_t	1013.98	1.739647
n_s	852.11	1.743906
n_r	706.52	1.749527
n_C	656.27	1.752224
$n_{C'}$	643.85	1.752981
n_{He-Ne}	632.8	1.753690
n_D	589.29	1.756860
n_d	587.56	1.757000
n_e	546.07	1.760776
n_F	486.13	1.768090
$n_{F'}$	479.99	1.769008
n_g	435.83	1.776906
n_h	404.66	1.784322
n_i	365.01	1.797168
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.12023521E+00
L_1	3.35766705E-03
K_2	8.97573526E-01
L_2	2.27710735E-02
K_3	1.36654860E+00
L_3	9.20376324E+01

折射率温度系数常数 Constants of dn/dt

D_0	4.32E-06
D_1	1.59E-08
D_2	-1.31E-11
E_0	6.18E-07
E_1	3.24E-10
λ_{TK}(μm)	0.187

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2684	$P'_{s,t}$	0.2657
$P_{C,s}$	0.5243	$P'_{C',s}$	0.5662
$P_{d,C}$	0.3010	$P'_{d,C'}$	0.2508
$P_{e,d}$	0.2380	$P'_{e,d}$	0.2356
$P_{g,F}$	0.5557	$P'_{g,F'}$	0.4928
$P_{i,h}$	0.8097	$P'_{i,h}$	0.8015

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0216	$\Delta P_{C,s}$	0.0097
$\Delta P_{F,e}$	-0.0026	$\Delta P_{g,F}$	-0.0088

着色度 Color Code

λ_{80}/λ_5	390/320
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	646
T_s (℃)	680
$T_{10}^{14.5}$ (℃)	603
T_{10}^{13} (℃)	632
$T_{10}^{7.6}$(℃)	731
$\alpha_{-30/70℃}$(10^{-7}/K)	57
$\alpha_{100/300℃}$(10^{-7}/K)	69
λ[W/(m·K)]	

化学性质 Chemical Properties

	Grade
D_W	1
D_A	6
CR	1
RC(S)	1
RA(S)	3

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.810	0.650
2200	0.950	0.902
2000	0.982	0.965
1800	0.996	0.992
1600	0.999	0.998
1400	0.999	0.998
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	0.997
600	0.998	0.997
550	0.998	0.997
500	0.997	0.994
480	0.996	0.992
460	0.994	0.989
440	0.992	0.984
420	0.988	0.976
400	0.979	0.958
390	0.969	0.938
380	0.952	0.906
370	0.924	0.853
360	0.880	0.770
350	0.810	0.650
340	0.690	0.480
330	0.510	0.260
320	0.260	0.070
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	4.2	4.7	5.0	5.3	5.7	6.2
-40～-20	4.3	4.8	5.0	5.4	5.8	6.3
-20～0	4.3	4.9	5.2	5.4	6.0	6.5
0～20	4.4	5.0	5.3	5.5	6.1	6.6
20～40	4.5	5.2	5.6	5.7	6.3	6.8
40～60	4.6	5.5	5.8	6.0	6.5	7.0
60～80	4.9	5.7	5.8	6.2	6.7	7.3
80～100	5.3	5.8	6.0	6.3	6.9	7.6
100～120	5.4	6.0	6.3	6.6	7.2	7.8
120～140	5.6	6.2	6.5	6.8	7.4	8.3

机械性质 Mechanical Properties

H_K (10^7Pa)	729
F_A	86
E (10^7Pa)	11806
G (10^7Pa)	4570
μ	0.291
B (10^{-12}/Pa)	1.84

其他性质 Other Properties

ρ (g/cm^3)	4.06

备注 Remarks

CDGM