H-LaF10LA	788475	n_d = 1.788000	υ_d = 47.49	$n_F - n_C$ = 0.016592
		n_e = 1.791950	υ_e = 47.25	$n_{F'} - n_{C'}$ = 0.016760

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.744703
$n_{1970.09}$	1970.09	1.752270
$n_{1529.58}$	1529.58	1.760322
$n_{1060.0}$	1060.0	1.768965
n_t	1013.98	1.769993
n_s	852.11	1.774356
n_r	706.52	1.780192
n_C	656.27	1.783007
$n_{C'}$	643.85	1.783798
n_{He-Ne}	632.8	1.784538
n_D	589.29	1.787853
n_d	587.56	1.788000
n_e	546.07	1.791950
n_F	486.13	1.799599
$n_{F'}$	479.99	1.800558
n_g	435.83	1.808810
n_h	404.66	1.816553
n_i	365.01	1.829972
$n_{313.18}$	313.18	1.858341
$n_{302.15}$	302.15	1.867099

色散公式常数 Constants of Dispersion Formula

K_1	1.93178403E+00
L_1	9.97340769E-03
K_2	1.89897276E-01
L_2	3.68891042E-02
K_3	1.09736515E+00
L_3	7.72777489E+01

折射率温度系数常数 Constants of dn/dt

D_0	1.87E-06
D_1	1.68E-08
D_2	-3.95E-11
E_0	5.95E-07
E_1	4.28E-10
λ_{TK}(μm)	0.194

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2630	$P'_{s,t}$	0.2603
$P_{C,s}$	0.5214	$P'_{C',s}$	0.5634
$P_{d,C}$	0.3009	$P'_{d,C'}$	0.2507
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2357
$P_{g,F}$	0.5551	$P'_{g,F'}$	0.4924
$P_{i,h}$	0.8088	$P'_{i,h}$	0.8007

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0143	$\Delta P_{C,s}$	0.0074
$\Delta P_{F,e}$	-0.0027	$\Delta P_{g,F}$	-0.0097

着色度 Color Code

λ_{80}/λ_5	380/315
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	681
T_s (℃)	707
$T_{10}^{14.5}$ (℃)	636
T_{10}^{13} (℃)	661
$T_{10}^{7.6}$(℃)	756
$\alpha_{-30/70℃}$(10^{-7}/K)	61
$\alpha_{100/300℃}$(10^{-7}/K)	77
λ[W/(m·K)]	0.683
c_p[J/(g·K)]	0.459

化学性质 Chemical Properties

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

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.823	0.677
2200	0.948	0.900
2000	0.981	0.963
1800	0.994	0.987
1600	0.998	0.995
1400	0.998	0.996
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	0.999	0.998
650	0.999	0.997
600	0.998	0.996
550	0.997	0.995
500	0.997	0.994
480	0.996	0.992
460	0.995	0.991
440	0.992	0.985
420	0.990	0.981
400	0.984	0.969
390	0.979	0.958
380	0.970	0.940
370	0.953	0.909
360	0.926	0.857
350	0.879	0.773
340	0.806	0.649
330	0.680	0.462
320	0.449	0.202
310	0.167	0.028
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	2.5	3.0	3.3	3.6	4.2	4.8
-40～-20	2.6	3.1	3.6	3.6	4.3	4.8
-20～0	2.7	3.4	3.7	3.7	4.3	4.9
0～20	3.1	3.8	3.9	4.2	4.8	5.1
20～40	3.3	4.0	4.0	4.5	4.8	5.4
40～60	3.5	4.2	4.3	4.6	5.2	5.6
60～80	3.5	4.3	4.4	4.8	5.2	5.9
80～100	3.5	4.3	4.5	4.9	5.4	6.3
100～120	3.7	4.4	4.8	4.8	5.7	6.3
120～140	3.8	4.4	4.9	5.1	6.1	6.4

机械性质 Mechanical Properties

H_K (10^7Pa)	652
F_A	100
E (10^7Pa)	12398
G (10^7Pa)	4787
μ	0.295
B (10^{-12}/Pa)	1.39

其他性质 Other Properties

ρ (g/cm^3)	4.30

备注 Remarks

CDGM