H-LaF53	743492	n_d = 1.743300	υ_d = 49.22	$n_F - n_C$ = 0.015101
		n_e = 1.746896	υ_e = 48.98	$n_{F'} - n_{C'}$ = 0.015249

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.702895
$n_{1970.09}$	1970.09	1.710090
$n_{1529.58}$	1529.58	1.717730
$n_{1060.0}$	1060.0	1.725841
n_t	1013.98	1.726795
n_s	852.11	1.730824
n_r	706.52	1.736175
n_C	656.27	1.738747
$n_{C'}$	643.85	1.739469
n_{He-Ne}	632.8	1.740144
n_D	589.29	1.743166
n_d	587.56	1.743300
n_e	546.07	1.746896
n_F	486.13	1.753848
$n_{F'}$	479.99	1.754718
n_g	435.83	1.762197
n_h	404.66	1.769196
n_i	365.01	1.781268
$n_{313.18}$	313.18	1.806440
$n_{302.15}$	302.15	1.814079

色散公式常数 Constants of Dispersion Formula

K_1	1.52005515E+00
L_1	7.46606502E-03
K_2	1.09140777E+00
L_2	8.19422153E+01
K_3	4.52588708E-01
L_3	2.63954349E-02

折射率温度系数常数 Constants of dn/dt

D_0	8.12E-06
D_1	1.80E-08
D_2	-3.55E-11
E_0	6.59E-07
E_1	7.00E-10
λ_{TK}(μm)	0.185

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2668	$P'_{s,t}$	0.2642
$P_{C,s}$	0.5247	$P'_{C',s}$	0.5669
$P_{d,C}$	0.3015	$P'_{d,C'}$	0.2512
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2358
$P_{g,F}$	0.5529	$P'_{g,F'}$	0.4905
$P_{i,h}$	0.7994	$P'_{i,h}$	0.7917

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0133	$\Delta P_{C,s}$	0.0066
$\Delta P_{F,e}$	-0.0024	$\Delta P_{g,F}$	-0.0090

着色度 Color Code

λ_{80}/λ_5	370/300
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	590
T_s (℃)	621
$T_{10}^{14.5}$ (℃)	550
T_{10}^{13} (℃)	582
$T_{10}^{7.6}$(℃)	682
$\alpha_{-30/70℃}(10^{-7}/K)$	55
$\alpha_{100/300℃}(10^{-7}/K)$	73
λ[W/(m·K)]	0.630
c_p[J/(g·K)]	0.466

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	0.800	0.640
2200	0.939	0.881
2000	0.976	0.952
1800	0.989	0.979
1600	0.996	0.992
1400	0.998	0.996
1200	0.998	0.997
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.997
850	0.998	0.996
800	0.998	0.995
700	0.997	0.994
650	0.997	0.993
600	0.997	0.993
550	0.997	0.993
500	0.995	0.990
480	0.993	0.987
460	0.992	0.984
440	0.988	0.977
420	0.985	0.970
400	0.978	0.956
390	0.970	0.940
380	0.954	0.910
370	0.930	0.860
360	0.880	0.780
350	0.810	0.650
340	0.710	0.500
330	0.570	0.320
320	0.410	0.170
310	0.250	0.060
300	0.100	0.010
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	5.9	6.7	7.0	7.1	7.7	8.4
-40～-20	6.1	6.8	7.0	7.2	7.8	8.4
-20～0	6.3	7.1	7.2	7.4	7.9	8.5
0～20	6.6	7.2	7.4	7.7	8.2	8.8
20～40	6.8	7.6	7.7	8.1	8.7	9.3
40～60	6.9	7.8	8.0	8.3	9.0	9.5
60～80	7.0	7.8	8.2	8.6	8.9	9.7
80～100	7.2	8.0	8.5	8.6	9.1	10.0
100～120	7.4	8.3	8.6	8.8	9.5	10.3
120～140	7.5	8.4	8.7	8.9	9.8	10.5

机械性质 Mechanical Properties

H_K (10^7Pa)	698
F_A	104
E (10^7Pa)	10678
G (10^7Pa)	4084
μ	0.307
B (10^{-12}/Pa)	2.21

其他性质 Other Properties

ρ (g/cm^3)	4.16

备注 Remarks

CDGM