H-LaF51	700481	n_d = 1.700000	υ_d = 48.08	$n_F - n_C$ = 0.014559
		n_e = 1.703462	υ_e = 47.80	$n_{F'} - n_{C'}$ = 0.014718

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.663483
$n_{1970.09}$	1970.09	1.669624
$n_{1529.58}$	1529.58	1.676260
$n_{1060.0}$	1060.0	1.683533
n_t	1013.98	1.684408
n_s	852.11	1.688150
n_r	706.52	1.693195
n_C	656.27	1.695642
$n_{C'}$	643.85	1.696331
n_{He-Ne}	632.8	1.696976
n_D	589.29	1.699871
n_d	587.56	1.700000
n_e	546.07	1.703462
n_F	486.13	1.710201
$n_{F'}$	479.99	1.711049
n_g	435.83	1.718374
n_h	404.66	1.725292
n_i	365.01	1.737386
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.16091555E+00
L_1	1.02913644E+02
K_2	1.53441573E+00
L_2	7.59735684E-03
K_3	2.93141701E-01
L_3	3.38071716E-02

折射率温度系数常数 Constants of dn/dt

D_0	-2.02E-06
D_1	1.89E-08
D_2	-1.30E-10
E_0	4.46E-07
E_1	1.77E-10
λ_{TK}(μm)	0.281

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2570	$P'_{s,t}$	0.2542
$P_{C,s}$	0.5146	$P'_{C',s}$	0.5558
$P_{d,C}$	0.2993	$P'_{d,C'}$	0.2493
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2352
$P_{g,F}$	0.5614	$P'_{g,F'}$	0.4977
$P_{i,h}$	0.8307	$P'_{i,h}$	0.8217

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	-0.0012	$\Delta P_{C,s}$	-0.0008
$\Delta P_{F,e}$	-0.0005	$\Delta P_{g,F}$	-0.0024

着色度 Color Code

λ_{80}/λ_5	380/340
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	649
T_s (℃)	686
$T_{10}^{14.5}$ (℃)	601
T_{10}^{13} (℃)	629
$T_{10}^{7.6}$(℃)	738
$\alpha_{-30/70℃}$(10^{-7}/K)	80
$\alpha_{100/300℃}$(10^{-7}/K)	94
λ[W/(m·K)]	

化学性质 Chemical Properties

	Grade
D_W	2
D_A	3
CR	2
RC(S)	1
RA(S)	4

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.861	0.742
2200	0.944	0.891
2000	0.979	0.958
1800	0.989	0.979
1600	0.996	0.992
1400	0.997	0.995
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	0.996
600	0.997	0.995
550	0.997	0.995
500	0.997	0.994
480	0.996	0.992
460	0.994	0.989
440	0.993	0.987
420	0.991	0.982
400	0.983	0.967
390	0.973	0.947
380	0.954	0.910
370	0.909	0.826
360	0.807	0.652
350	0.589	0.347
340	0.239	0.057
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						
-40～-20	0.0	0.3	0.5	0.8	0.9	1.5
-20～0	-0.1	0.8	1.2	1.3	1.4	2.3
0～20	0.5	1.2	1.4	1.6	2.0	2.6
20～40	0.8	1.2	1.4	1.5	2.3	2.8
40～60	1.0	1.4	1.4	1.6	2.4	2.9
60～80	1.1	1.3	1.4	1.7	2.5	3.0
80～100						
100～120						
120～140						

机械性质 Mechanical Properties

H_K (10^7Pa)	576
F_A	175
E (10^7Pa)	9644
G (10^7Pa)	3745
μ	0.288
B (10^{-12}/Pa)	1.58

其他性质 Other Properties

ρ (g/cm^3)	3.82

备注 Remarks

CDGM