D-LaF50	774496	n_d = 1.774000	υ_d = 49.59	$n_F - n_C$ = 0.015608
		n_e = 1.777717	υ_e = 49.32	$n_{F'} - n_{C'}$ = 0.015768

折射率 Refractive Index*

	λ（nm）	
$n_{2325.42}$	2325.42	1.735624
$n_{1970.09}$	1970.09	1.741896
$n_{1529.58}$	1529.58	1.748710
$n_{1060.0}$	1060.0	1.756316
n_t	1013.98	1.757246
n_s	852.11	1.761245
n_r	706.52	1.766674
n_C	656.27	1.769310
$n_{C'}$	643.85	1.770052
n_{He-Ne}	632.8	1.770747
n_D	589.29	1.773862
n_d	587.56	1.774000
n_e	546.07	1.777717
n_F	486.13	1.784918
$n_{F'}$	479.99	1.785820
n_g	435.83	1.793577
n_h	404.66	1.800834
n_i	365.01	1.813339
$n_{313.18}$	313.18	1.839302
$n_{302.15}$	302.15	1.847139

色散公式常数 Constants of Dispersion Formula

K_1	1.34473873E+00
L_1	6.03619400E-03
K_2	1.13288204E+00
L_2	9.55213185E+01
K_3	7.31048914E-01
L_3	2.27061980E-02

折射率温度系数常数 Constants of dn/dt

D_0	1.53E-06
D_1	1.43E-08
D_2	-3.83E-11
E_0	5.87E-07
E_1	4.10E-10
λ_{TK}(μm)	0.222

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2562	$P'_{s,t}$	0.2536
$P_{C,s}$	0.5167	$P'_{C',s}$	0.5585
$P_{d,C}$	0.3005	$P'_{d,C'}$	0.2504
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2357
$P_{g,F}$	0.5548	$P'_{g,F'}$	0.4919
$P_{i,h}$	0.8012	$P'_{i,h}$	0.7931

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	-0.0070	$\Delta P_{C,s}$	-0.0023
$\Delta P_{F,e}$	-0.0012	$\Delta P_{g,F}$	-0.0065

着色度 Color Code

λ_{80}/λ_5	380/310
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	573
T_s (℃)	613
$T_{10}^{14.5}$ (℃)	523
T_{10}^{13} (℃)	557
$T_{10}^{7.6}$(℃)	671
$\alpha_{-30/70℃}$(10^{-7}/K)	73
$\alpha_{100/300℃}$(10^{-7}/K)	89
λ[W/(m·K)]	

化学性质 Chemical Properties

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

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.890	0.792
2200	0.970	0.941
2000	0.988	0.976
1800	0.996	0.993
1600	0.998	0.997
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	0.996
550	0.998	0.996
500	0.998	0.996
480	0.997	0.995
460	0.996	0.993
440	0.995	0.990
420	0.993	0.987
400	0.989	0.979
390	0.985	0.970
380	0.977	0.955
370	0.962	0.925
360	0.932	0.869
350	0.884	0.782
340	0.809	0.655
330	0.706	0.498
320	0.576	0.332
310	0.367	0.135
300	0.277	0.077
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	2.7	3.2	3.5	3.6	4.3	4.8
-40～-20	2.7	3.2	3.5	3.7	4.3	4.8
-20～0	2.7	3.3	3.6	3.7	4.3	4.9
0～20	2.8	3.3	3.6	3.7	4.3	5.1
20～40	3.0	3.7	3.9	4.3	4.8	5.5
40～60	3.0	3.7	4.0	4.3	4.9	5.5
60～80	3.0	3.8	4.0	4.3	4.9	5.5
80～100	3.3	4.0	4.1	4.5	5.1	5.8
100～120	3.3	4.0	4.1	4.5	5.2	5.8
120～140	3.3	4.0	4.1	4.5	5.2	5.8

机械性质 Mechanical Properties

H_K (10^7Pa)	614
F_A	110
E (10^7Pa)	12098
G (10^7Pa)	4645
μ	0.302
B (10^{-12}/Pa)	1.36

其他性质 Other Properties

ρ (g/cm^3)	4.93

备注 Remarks

*:退火速率 anneal rate 4℃/h

CDGM