H-ZLaF90A	001255	n_d = 2.000690	υ_d = 25.46	$n_F - n_C$ = 0.039307
		n_e = 2.009953	υ_e = 25.26	$n_{F'} - n_{C'}$ = 0.039987

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.932180
$n_{1970.09}$	1970.09	1.939818
$n_{1529.58}$	1529.58	1.948917
$n_{1060.0}$	1060.0	1.961433
n_t	1013.98	1.963199
n_s	852.11	1.971304
n_r	706.52	1.983295
n_C	656.27	1.989414
$n_{C'}$	643.85	1.991166
n_{He-Ne}	632.8	1.992818
n_D	589.29	2.000351
n_d	587.56	2.000690
n_e	546.07	2.009953
n_F	486.13	2.028721
$n_{F'}$	479.99	2.031153
n_g	435.83	2.052854
n_h	404.66	2.074615
n_i	365.01	
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	2.34543127E+00
L_1	1.41722355E-02
K_2	4.62434366E-01
L_2	6.12622200E-02
K_3	1.97876853E+00
L_3	1.29818490E+02

折射率温度系数常数 Constants of dn/dt

D_0	-2.44E-06
D_1	1.48E-08
D_2	-3.78E-11
E_0	1.14E-06
E_1	1.44E-09
λ_{TK}(μm)	0.278

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2062	$P'_{s,t}$	0.2027
$P_{C,s}$	0.4607	$P'_{C',s}$	0.4967
$P_{d,C}$	0.2869	$P'_{d,C'}$	0.2382
$P_{e,d}$	0.2357	$P'_{e,d}$	0.2317
$P_{g,F}$	0.6140	$P'_{g,F'}$	0.5427
$P_{i,h}$		$P'_{i,h}$	

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0007	$\Delta P_{C,s}$	-0.0012
$\Delta P_{F,e}$	0.0018	$\Delta P_{g,F}$	0.0117

着色度 Color Code

λ_{80}/λ_5	
λ_{70}/λ_5	445/370

热性质 Thermal Properties

T_g (℃)	691
T_s (℃)	725
$T_{10}^{14.5}$ (℃)	640
T_{10}^{13} (℃)	673
$T_{10}^{7.6}$(℃)	784
$\alpha_{-30/70℃}$(10^{-7}/K)	73
$\alpha_{100/300℃}$(10^{-7}/K)	91
λ[W/(m·K)]	0.779
c_p[J/(g·K)]	0.451

化学性质 Chemical Properties

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

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.939	0.882
2200	0.980	0.960
2000	0.991	0.982
1800	0.996	0.993
1600	0.999	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	0.997	0.995
600	0.994	0.988
550	0.990	0.980
500	0.976	0.953
480	0.967	0.936
460	0.953	0.909
440	0.931	0.866
420	0.885	0.783
400	0.790	0.624
390	0.694	0.482
380	0.510	0.260
370	0.212	0.045
360		
350		
340		
330		
320		
310		
300		
290		
280		

机械性质 Mechanical Properties

H_K (10^7Pa)	654
F_A	156
E (10^7Pa)	12283
G (10^7Pa)	4730
μ	0.298
B (10^{-12}/Pa)	1.34

其他性质 Other Properties

ρ (g/cm^3)	4.73

备注 Remarks

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	0.1	1.6	2.1	2.6	4.2	5.9
-40～-20	0.3	2.0	2.4	3.0	4.5	6.5
-20～0	0.5	2.1	2.6	3.4	4.9	7.0
0～20	0.8	2.4	3.0	3.7	5.5	7.5
20～40	1.0	2.6	3.4	4.1	6.1	8.3
40～60	1.2	2.9	3.8	4.4	6.4	8.9
60～80	1.4	3.3	4.0	4.9	7.0	9.3
80～100	1.6	3.6	4.1	5.1	7.3	9.7
100～120	1.8	3.7	4.4	5.2	7.6	10.3
120～140	1.8	3.8	4.7	5.5	7.9	10.6

CDGM