H-ZF4A	728283	n_d = 1.728250	υ_d = 28.32	$n_F - n_C$ = 0.025716
		n_e = 1.734316	υ_e = 28.09	$n_{F'} - n_{C'}$ = 0.026140

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.679677
$n_{1970.09}$	1970.09	1.685822
$n_{1529.58}$	1529.58	1.692905
$n_{1060.0}$	1060.0	1.701988
n_t	1013.98	1.703216
n_s	852.11	1.708753
n_r	706.52	1.716776
n_C	656.27	1.720828
$n_{C'}$	643.85	1.721984
n_{He-Ne}	632.8	1.723074
n_D	589.29	1.728027
n_d	587.56	1.728250
n_e	546.07	1.734316
n_F	486.13	1.746544
$n_{F'}$	479.99	1.748124
n_g	435.83	1.762183
n_h	404.66	1.776236
n_i	365.01	1.803116
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.67238093E+00
L_1	1.33653851E-02
K_2	1.34134437E+00
L_2	1.22464022E+02
K_3	2.04305471E-01
L_3	6.41192325E-02

折射率温度系数常数 Constants of dn/dt

D_0	-5.36E-06
D_1	1.47E-08
D_2	-3.86E-11
E_0	1.02E-06
E_1	8.24E-10
λ_{TK}(μm)	0.276

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2153	$P'_{s,t}$	0.2118
$P_{C,s}$	0.4696	$P'_{C',s}$	0.5062
$P_{d,C}$	0.2886	$P'_{d,C'}$	0.2397
$P_{e,d}$	0.2359	$P'_{e,d}$	0.2321
$P_{g,F}$	0.6081	$P'_{g,F'}$	0.5378
$P_{i,h}$	1.0453	$P'_{i,h}$	1.0283

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0052	$\Delta P_{C,s}$	0.0009
$\Delta P_{F,e}$	0.0014	$\Delta P_{g,F}$	0.0107

着色度 Color Code

λ_{80}/λ_5	410/370
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	593
T_s (℃)	629
$T_{10}^{14.5}$ (℃)	537
T_{10}^{13} (℃)	571
$T_{10}^{7.6}$(℃)	684
$\alpha_{-30/70℃}$(10^{-7}/K)	93
$\alpha_{100/300℃}$(10^{-7}/K)	112
λ[W/(m·K)]	

化学性质 Chemical Properties

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

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.934	0.872
2200	0.956	0.914
2000	0.979	0.958
1800	0.987	0.975
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	0.998	0.997
700	0.998	0.996
650	0.997	0.995
600	0.996	0.993
550	0.996	0.993
500	0.992	0.985
480	0.991	0.982
460	0.988	0.976
440	0.982	0.965
420	0.971	0.942
400	0.934	0.873
390	0.883	0.779
380	0.758	0.574
370	0.462	0.213
360		
350		
340		
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	-1.2	-0.3	0.3	0.7	1.7	2.9
-40～-20	-1.2	-0.1	0.4	0.7	1.7	3.2
-20～0	-1.1	-0.1	0.6	0.8	1.9	3.3
0～20	-1.1	0.2	0.7	1.0	2.2	3.7
20～40	-0.8	0.4	0.9	1.3	2.4	4.0
40～60	-0.6	0.6	1.0	1.4	2.8	4.2
60～80	-0.5	0.6	1.1	1.6	3.1	4.5
80～100	-0.4	0.7	1.1	1.7	3.2	4.7
100～120	-0.4	0.7	1.2	1.9	3.3	4.9
120～140	-0.4	0.8	1.3	2.0	3.3	5.2

机械性质 Mechanical Properties

H_K (10^7Pa)	524
F_A	192
E (10^7Pa)	8774
G (10^7Pa)	3496
μ	0.255
B (10^{-12}/Pa)	2.73

其他性质 Other Properties

ρ (g/cm^3)	3.05

备注 Remarks

CDGM