H-ZF1A	648339	n_d = 1.647690	υ_d = 33.89	$n_F - n_C$ = 0.019113
		n_e = 1.652209	υ_e = 33.63	$n_{F'} - n_{C'}$ = 0.019394

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.607271
$n_{1970.09}$	1970.09	1.613141
$n_{1529.58}$	1529.58	1.619690
$n_{1060.0}$	1060.0	1.627464
n_t	1013.98	1.628461
n_s	852.11	1.632852
n_r	706.52	1.639034
n_C	656.27	1.642110
$n_{C'}$	643.85	1.642984
n_{He-Ne}	632.8	1.643805
n_D	589.29	1.647524
n_d	587.56	1.647690
n_e	546.07	1.652209
n_F	486.13	1.661223
$n_{F'}$	479.99	1.662378
n_g	435.83	1.672573
n_h	404.66	1.682600
n_i	365.01	1.701284
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.57527094E-01
L_1	5.85466694E-02
K_2	1.47922850E+00
L_2	1.11805229E-02
K_3	1.18166385E+00
L_3	1.15153843E+02

折射率温度系数常数 Constants of dn/dt

D_0	-2.07E-06
D_1	1.38E-08
D_2	-4.21E-11
E_0	7.78E-07
E_1	1.01E-09
λ_{TK}(μm)	0.278

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2297	$P'_{s,t}$	0.2264
$P_{C,s}$	0.4844	$P'_{C',s}$	0.5224
$P_{d,C}$	0.2919	$P'_{d,C'}$	0.2427
$P_{e,d}$	0.2364	$P'_{e,d}$	0.2330
$P_{g,F}$	0.5938	$P'_{g,F'}$	0.5257
$P_{i,h}$	0.9776	$P'_{i,h}$	0.9634

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0082	$\Delta P_{C,s}$	0.0025
$\Delta P_{F,e}$	0.0005	$\Delta P_{g,F}$	0.0058

着色度 Color Code

λ_{80}/λ_5	390/360
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	601
T_s (℃)	625
$T_{10}^{14.5}$ (℃)	537
T_{10}^{13} (℃)	572
$T_{10}^{7.6}$(℃)	694
$\alpha_{-30/70℃}$(10^{-7}/K)	85
$\alpha_{100/300℃}$(10^{-7}/K)	103
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	0.923	0.852
2200	0.943	0.889
2000	0.975	0.950
1800	0.986	0.972
1600	0.995	0.991
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	0.996
700	0.998	0.996
650	0.997	0.995
600	0.997	0.994
550	0.996	0.993
500	0.995	0.990
480	0.994	0.988
460	0.993	0.986
440	0.990	0.981
420	0.987	0.974
400	0.972	0.944
390	0.944	0.891
380	0.872	0.761
370	0.667	0.445
360	0.251	0.063
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	0.5	1.2	1.3	1.7	2.3	3.4
-40～-20	0.7	1.4	1.5	1.9	2.5	3.7
-20～0	0.8	1.4	1.7	2.0	2.8	3.8
0～20	0.9	1.5	1.9	2.2	3.2	3.9
20～40	0.9	1.7	2.0	2.4	3.4	4.3
40～60	1.0	1.9	2.1	2.6	3.5	4.6
60～80	1.0	2.0	2.2	2.8	3.7	4.8
80～100	1.1	2.0	2.4	2.8	3.8	5.0
100～120	1.1	2.1	2.5	2.9	3.8	5.2
120～140	1.2	2.1	2.5	3.0	3.9	5.3

机械性质 Mechanical Properties

H_K (10^7Pa)	523
F_A	147
E (10^7Pa)	8262
G (10^7Pa)	3338
μ	0.237
B (10^{-12}/Pa)	2.72

其他性质 Other Properties

ρ (g/cm^3)	2.79

备注 Remarks

CDGM