H-ZF1	648338	n_d = 1.647690	υ_d = 33.84	$n_F - n_C$ = 0.019140
		n_e = 1.652216	υ_e = 33.58	$n_{F'} - n_{C'}$ = 0.019420

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.607841
$n_{1970.09}$	1970.09	1.613506
$n_{1529.58}$	1529.58	1.619851
$n_{1060.0}$	1060.0	1.627482
n_t	1013.98	1.628470
n_s	852.11	1.632841
n_r	706.52	1.639021
n_C	656.27	1.642100
$n_{C'}$	643.85	1.642976
n_{He-Ne}	632.8	1.643798
n_D	589.29	1.647523
n_d	587.56	1.647690
n_e	546.07	1.652216
n_F	486.13	1.661240
$n_{F'}$	479.99	1.662396
n_g	435.83	1.672589
n_h	404.66	1.682600
n_i	365.01	1.701223
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.06294164E+00
L_1	1.08400406E+02
K_2	1.46910876E-01
L_2	5.91797128E-02
K_3	1.48922543E+00
L_3	1.15933111E-02

折射率温度系数常数 Constants of dn/dt

D_0	-4.73E-06
D_1	1.27E-08
D_2	-8.17E-11
E_0	8.61E-07
E_1	9.43E-10
λ_{TK}(μm)	0.263

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2284	$P'_{s,t}$	0.2251
$P_{C,s}$	0.4838	$P'_{C',s}$	0.5219
$P_{d,C}$	0.2921	$P'_{d,C'}$	0.2427
$P_{e,d}$	0.2365	$P'_{e,d}$	0.2331
$P_{g,F}$	0.5929	$P'_{g,F'}$	0.5249
$P_{i,h}$	0.9730	$P'_{i,h}$	0.9590

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0064	$\Delta P_{C,s}$	0.0020
$\Delta P_{F,e}$	0.0004	$\Delta P_{g,F}$	0.0049

着色度 Color Code

λ_{80}/λ_5	390/360
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	546
T_s (℃)	579
$T_{10}^{14.5}$ (℃)	480
T_{10}^{13} (℃)	516
$T_{10}^{7.6}$(℃)	644
$\alpha_{-30/70℃}$(10^{-7}/K)	91
$\alpha_{100/300℃}$(10^{-7}/K)	117
λ[W/(m·K)]	0.821
c_p[J/(g·K)]	0.677

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	0.917	0.841
2200	0.940	0.884
2000	0.972	0.944
1800	0.984	0.969
1600	0.995	0.991
1400	0.996	0.993
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	0.999	0.998
550	0.998	0.997
500	0.997	0.995
480	0.996	0.992
460	0.995	0.990
440	0.994	0.988
420	0.991	0.983
400	0.981	0.962
390	0.961	0.923
380	0.908	0.824
370	0.744	0.553
360	0.361	0.130
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						
-40～-20	-0.8	-0.2	0.0	0.2	1.2	2.2
-20～0	-0.7	0.1	0.5	1.1	1.4	2.5
0～20	-0.6	0.5	0.8	1.0	1.6	2.8
20～40	-0.5	0.5	0.8	1.0	1.9	2.8
40～60	-0.4	0.5	0.7	1.0	2.2	3.2
60～80	-0.2	0.5	0.7	1.1	2.4	3.4
80～100						
100～120						
120～140						

机械性质 Mechanical Properties

H_K (10^7Pa)	507
F_A	96
E (10^7Pa)	8050
G (10^7Pa)	3228
μ	0.247
B (10^{-12}/Pa)	2.66

其他性质 Other Properties

ρ (g/cm^3)	2.73

备注 Remarks

CDGM