H-ZF10	689312	n_d = 1.688930	υ_d = 31.16	$n_F - n_C$ = 0.022109
		n_e = 1.694152	υ_e = 30.92	$n_{F'} - n_{C'}$ = 0.022453

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.645355
$n_{1970.09}$	1970.09	1.651128
$n_{1529.58}$	1529.58	1.657732
$n_{1060.0}$	1060.0	1.665985
n_t	1013.98	1.667081
n_s	852.11	1.671976
n_r	706.52	1.678990
n_C	656.27	1.682510
$n_{C'}$	643.85	1.683513
n_{He-Ne}	632.8	1.684457
n_D	589.29	1.688738
n_d	587.56	1.688930
n_e	546.07	1.694152
n_F	486.13	1.704619
$n_{F'}$	479.99	1.705966
n_g	435.83	1.717885
n_h	404.66	1.729683
n_i	365.01	1.751877
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.50060292E+00
L_1	1.45496272E+02
K_2	1.57641199E+00
L_2	1.21805144E-02
K_3	1.83076270E-01
L_3	6.05139545E-02

折射率温度系数常数 Constants of dn/dt

D_0	-5.43E-06
D_1	1.06E-08
D_2	-9.67E-11
E_0	9.25E-07
E_1	1.66E-09
λ_{TK}(μm)	0.269

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2214	$P'_{s,t}$	0.2180
$P_{C,s}$	0.4765	$P'_{C',s}$	0.5138
$P_{d,C}$	0.2904	$P'_{d,C'}$	0.2413
$P_{e,d}$	0.2362	$P'_{e,d}$	0.2326
$P_{g,F}$	0.6000	$P'_{g,F'}$	0.5308
$P_{i,h}$	1.0038	$P'_{i,h}$	0.9885

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0048	$\Delta P_{C,s}$	0.0011
$\Delta P_{F,e}$	0.0009	$\Delta P_{g,F}$	0.0074

着色度 Color Code

λ_{80}/λ_5	395/360
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	554
T_s (℃)	587
$T_{10}^{14.5}$ (℃)	490
T_{10}^{13} (℃)	526
$T_{10}^{7.6}$(℃)	650
$\alpha_{-30/70℃}$(10^{-7}/K)	91
$\alpha_{100/300℃}$(10^{-7}/K)	119
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	0.940	0.884
2200	0.961	0.923
2000	0.981	0.963
1800	0.991	0.983
1600	0.999	0.998
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	0.998	0.997
700	0.996	0.993
650	0.995	0.991
600	0.996	0.993
550	0.996	0.993
500	0.994	0.988
480	0.992	0.984
460	0.990	0.980
440	0.987	0.975
420	0.982	0.964
400	0.957	0.916
390	0.920	0.847
380	0.830	0.690
370	0.600	0.360
360	0.200	0.040
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	-1.3	-1.1	-0.3	0.3	0.6	1.5
-20～0	-0.9	0.4	0.5	0.7	1.6	2.8
0～20	-0.9	0.1	0.3	0.6	1.3	2.9
20～40	-1.0	0.2	0.4	0.7	2.1	2.8
40～60	-0.9	0.1	0.7	1.2	2.1	3.6
60～80	-0.9	0.2	0.5	1.1	2.4	3.6
80～100						
100～120						
120～140						

机械性质 Mechanical Properties

H_K (10^7Pa)	527
F_A	175
E (10^7Pa)	8570
G (10^7Pa)	3438
μ	0.246
B (10^{-12}/Pa)	2.54

其他性质 Other Properties

ρ (g/cm^3)	2.92

备注 Remarks

CDGM