H-ZF39	667331	n_d = 1.666800	υ_d = 33.05	$n_F - n_C$ = 0.020173
		n_e = 1.671569	υ_e = 32.80	$n_{F'} - n_{C'}$ = 0.020475

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.625537
$n_{1970.09}$	1970.09	1.631273
$n_{1529.58}$	1529.58	1.637743
$n_{1060.0}$	1060.0	1.645620
n_t	1013.98	1.646647
n_s	852.11	1.651209
n_r	706.52	1.657685
n_C	656.27	1.660920
$n_{C'}$	643.85	1.661840
n_{He-Ne}	632.8	1.662705
n_D	589.29	1.666625
n_d	587.56	1.666800
n_e	546.07	1.671569
n_F	486.13	1.681093
$n_{F'}$	479.99	1.682315
n_g	435.83	1.693107
n_h	404.66	1.703739
n_i	365.01	1.723617
$n_{313.18}$	313.18	
$n_{302.15}$	302.15	

色散公式常数 Constants of Dispersion Formula

K_1	1.53633529E-01
L_1	6.03806210E-02
K_2	1.54070508E+00
L_2	1.18591415E-02
K_3	1.20956745E+00
L_3	1.19979606E+02

折射率温度系数常数 Constants of dn/dt

D_0	-4.14E-06
D_1	1.44E-08
D_2	-6.69E-11
E_0	8.18E-07
E_1	9.54E-10
λ_{TK}(μm)	0.274

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2261	$P'_{s,t}$	0.2228
$P_{C,s}$	0.4814	$P'_{C',s}$	0.5192
$P_{d,C}$	0.2915	$P'_{d,C'}$	0.2422
$P_{e,d}$	0.2364	$P'_{e,d}$	0.2329
$P_{g,F}$	0.5955	$P'_{g,F'}$	0.5271
$P_{i,h}$	0.9854	$P'_{i,h}$	0.9708

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0055	$\Delta P_{C,s}$	0.0015
$\Delta P_{F,e}$	0.0006	$\Delta P_{g,F}$	0.0061

着色度 Color Code

λ_{80}/λ_5	400/360
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	582
T_s (℃)	621
$T_{10}^{14.5}$ (℃)	524
T_{10}^{13} (℃)	562
$T_{10}^{7.6}$(℃)	682
$\alpha_{-30/70℃}$(10^{-7}/K)	90
$\alpha_{100/300℃}$(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)	2
RA(S)	1

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.916	0.839
2200	0.941	0.885
2000	0.971	0.942
1800	0.985	0.969
1600	0.998	0.996
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	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.996	0.991
480	0.994	0.989
460	0.993	0.985
440	0.990	0.980
420	0.984	0.968
400	0.961	0.924
390	0.927	0.859
380	0.840	0.705
370	0.610	0.373
360	0.201	0.040
350		
340		
330		
320		
310		
300		
290		
280		

机械性质 Mechanical Properties

H_K (10^7Pa)	531
F_A	168
E (10^7Pa)	8282
G (10^7Pa)	3318
μ	0.248
B (10^{-12}/Pa)	2.54

其他性质 Other Properties

ρ (g/cm^3)	2.92

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	0.2	0.7	0.6	1.4	2.1
-40～-20	-1.0	0.2	0.3	0.6	1.4	2.5
-20～0	-0.4	0.0	0.5	1.1	1.8	2.9
0～20	-0.1	0.5	0.9	1.2	2.0	3.0
20～40	-0.5	0.8	1.0	1.3	2.4	3.5
40～60	0.0	0.9	1.2	1.7	2.6	3.6
60～80	0.3	0.9	1.3	1.8	2.6	3.6
80～100	-0.4	0.6	1.0	1.4	2.6	3.9
100～120	-0.1	0.8	1.2	1.6	2.6	4.0
120～140	-0.4	0.7	1.0	1.5	2.5	3.9

CDGM