H-ZF72GT 923189

$n_d = 1.92286$	$\upsilon_d = 18.90$	$n_F - n_C = 0.048837$
$n_e = 1.93429$	$\upsilon_e = 18.74$	$n_{F'} - n_{C'} = 0.049853$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.84193
n_{1970}	1970.09	1.85076
n_{1530}	1529.58	1.86140
n_{1129}	1128.64	1.87330
n_{1064}	1064.00	1.87587
n_t	1013.98	1.87811
n_s	852.11	1.88761
$n_{A'}$	768.19	1.89481
n_r	706.52	1.90181
n_C	656.27	1.90916
$n_{C'}$	643.85	1.91127
n_{He-Ne}	632.80	1.91327
n_D	589.29	1.92245
n_d	587.56	1.92286
n_e	546.07	1.93429
n_F	486.13	1.95800
$n_{F'}$	479.99	1.96112
n_g	435.84	1.98974
n_h	404.66	2.01970
n_i	365.01	

Relative Partial Dispersion	
$P_{d,C}$	0.2805
$P_{e,d}$	0.2340
$P_{g,F}$	0.6499
$P'_{d,c'}$	0.2325
$P'_{e,d}$	0.2293
$P'_{g,F'}$	0.5741

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0057
$\Delta P_{g,F}$	0.0377
$\Delta P_{C,t}$	0.0041
$\Delta P_{C,s}$	-0.0045

Thermal Properties	
Tg (℃)	656
Ts (℃)	684
$T_{10}^{14.5}$ (℃)	585
T_{10}^{13} (℃)	634
$\alpha_{-50/80℃}$ (10^{-7}/K)	65
$\alpha_{100/300℃}$ (10^{-7}/K)	81
λ (W/(m·K))	1.13

Mechanical Properties	
HK (10^7Pa)	488
F_A	206
E (GPa)	100.3
G (GPa)	40.3
μ	0.243
σ_b (MPa)	55.6
B (10^{-12}/Pa)	3.24

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D_W	1
D_A	1
R_{OH} (S)	1
RP (S)	1

Expansion Coefficient α ($\times 10^{-7}$/K)	
℃	α
-50/-40	57
-40/-30	60
-30/-20	62
-20/-10	65
-10/0	66
0/10	67
10/20	69
20/30	69
30/40	70
40/50	70
50/60	70
60/70	71
70/80	71
80/90	72
90/100	72
100/110	73
110/120	74
120/130	74
130/140	75
140/150	76
150/160	77

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.983	0.966
2200	0.995	0.990
2000	0.997	0.994
1800	0.999	0.998
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	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.999	0.997
600	0.998	0.997
550	0.996	0.991
500	0.988	0.977
480	0.983	0.965
460	0.974	0.949
440	0.959	0.919
420	0.921	0.848
400	0.671	0.450
390	0.305	0.093
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	3.47907547E+00
A_1	-1.82056514E-02
A_2	6.44069814E-02
A_3	4.67488595E-03
A_4	-2.34014347E-04
A_5	6.37833754E-05

Density	
ρ (g/cm^3)	3.57

Solarization	
△λ (%)	-0.4

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative ($\times 10^{-6}$ / ℃)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	-0.5	0.3	0.8	0.9	1.0	1.4	2.2	4.3	4.4	6.7
-40 ~ -20	-0.3	0.3	0.9	1.0	1.1	1.6	2.5	4.5	4.6	7.0
-20 ~ 0	-0.1	0.4	1.1	1.2	1.3	1.9	2.9	4.9	5.0	8.0
0 ~ 20	-0.1	0.5	1.2	1.3	1.6	2.1	3.1	5.3	5.5	8.6
20 ~ 40	0.0	0.6	1.6	1.7	1.8	2.4	3.3	5.7	6.0	9.4
40 ~ 60	0.2	0.8	1.8	1.8	2.0	2.6	3.6	6.3	6.5	9.9
60 ~ 80	0.3	1.0	1.9	2.0	2.2	2.9	4.0	6.8	7.0	10.7
80 ~ 100	0.5	1.2	2.1	2.3	2.4	3.1	4.3	7.3	7.5	11.1
100 ~ 120	0.6	1.4	2.3	2.4	2.5	3.3	4.6	7.8	8.0	11.9
120 ~ 140	0.6	1.5	2.5	2.6	2.8	3.6	4.8	8.2	8.3	12.4
140 ~ 160	0.7	1.7	2.7	2.9	3.0	3.8	5.1	8.6	8.7	12.8

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(420)/385
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	417/387

Constants of dn/dt		
D_0	D_1	D_2
-3.91E-06	1.21E-08	-2.37E-11
E_0	E_1	λ_{TK}
1.14E-06	1.61E-09	3.25E-01