

H-ZF75GT 946180	$n_d = 1.94595$	$v_d = 17.98$	$n_F - n_C = 0.052600$
	$n_e = 1.95825$	$v_e = 17.84$	$n_{F'} - n_{C'} = 0.053718$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.85978
n_{1970}	1970.09	1.86908
n_{1530}	1529.58	1.88034
n_{1129}	1128.64	1.89291
n_{1064}	1064.00	1.89565
n_t	1013.98	1.89802
n_s	852.11	1.90816
$n_{A'}$	768.19	1.91585
n_r	706.52	1.92337
n_C	656.27	1.93123
$n_{C'}$	643.85	1.93350
n_{He-Ne}	632.80	1.93564
n_D	589.29	1.94550
n_d	587.56	1.94595
n_e	546.07	1.95825
n_F	486.13	1.98383
$n_{F'}$	479.99	1.98722
n_g	435.84	2.01828
n_h	404.66	2.05110
n_i	365.01	

Constants of Dispersion Formula	
A_0	3.55084508E+00
A_1	-1.93992631E-02
A_2	6.82201738E-02
A_3	5.85319322E-03
A_4	-4.21740063E-04
A_5	8.66214086E-05

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.53	-0.5

Relative Partial Dispersion	
$P_{d,C}$	0.2798
$P_{e,d}$	0.2338
$P_{g,F}$	0.6549
$P'_{d,c'}$	0.2318
$P'_{e,d}$	0.2290
$P'_{g,F'}$	0.5782

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0060
$\Delta P_{g,F}$	0.0412
$\Delta P_{C,t}$	0.0041
$\Delta P_{C,s}$	-0.0050

Thermal Properties	
T_g (°C)	682
T_s (°C)	709
$T_{10}^{14.5}$ (°C)	609
T_{10}^{13} (°C)	660
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	54
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	68
λ (W/(m·K))	1.11

Mechanical Properties	
HK (10 ⁷ Pa)	510
F_A	199
E (GPa)	104.6
G (GPa)	41.1
μ	0.272
σ_b (MPa)	78.1
B (10 ⁻¹² /Pa)	3.38

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 (×10 ⁻⁷ /K)	
°C	α
-50/-40	48
-40/-30	51
-30/-20	53
-20/-10	55
-10/0	56
0/10	57
10/20	57
20/30	58
30/40	59
40/50	59
50/60	60
60/70	61
70/80	61
80/90	62
90/100	62
100/110	63
110/120	64
120/130	64
130/140	66
140/150	67
150/160	68

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.975	0.951
2200	0.986	0.973
2000	0.997	0.995
1800	0.997	0.995
1600	0.997	0.995
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.995	0.991
500	0.988	0.975
480	0.982	0.963
460	0.973	0.946
440	0.957	0.916
420	0.915	0.838
400	0.604	0.365
390	0.243	0.059
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(430)/392
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	417/389

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 ⁻⁶ / °C)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	0.5	1.2	1.6	1.7	1.8	2.2	2.9	4.8	5.0	7.8
-40 ~ -20	0.5	1.3	1.8	1.9	2.0	2.5	3.4	5.4	5.6	8.7
-20 ~ 0	0.7	1.5	2.1	2.2	2.3	3.0	3.8	6.1	6.3	9.6
0 ~ 20	0.8	1.6	2.3	2.4	2.5	3.2	4.2	6.7	6.9	10.3
20 ~ 40	1.1	1.9	2.8	2.7	2.8	3.5	4.6	7.1	7.3	11.0
40 ~ 60	1.2	2.2	3.1	3.2	3.3	4.0	5.1	7.7	7.9	12.2
60 ~ 80	1.6	2.6	3.6	3.7	3.8	4.4	5.6	8.6	8.8	12.9
80 ~ 100	2.0	2.9	4.0	4.1	4.2	5.0	6.1	9.5	9.8	13.7
100 ~ 120	2.4	3.3	4.3	4.5	4.6	5.6	6.6	10.1	10.3	14.4
120 ~ 140	2.7	3.8	4.9	5.0	5.2	6.1	7.1	10.9	11.1	15.2
140 ~ 160	3.1	4.2	5.4	5.5	5.6	6.5	7.8	11.6	11.8	16.2

Constants of dn/dt		
D_0	D_1	D_2
-2.30E-06	1.66E-08	-7.59E-12
E_0	E_1	λ_{TK}
1.12E-06	1.62E-09	3.30E-01