

H-ZF75A	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)	3.53	$\Delta\lambda$ (%)	-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	
Tg (°C)	682
Ts (°C)	709
T ₁₀ ^{14.5} (°C)	609
T ₁₀ ¹³ (°C)	660
$\alpha_{.50/80^\circ C}$ (10 ⁻⁷ /K)	55
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	70
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)	66
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	47
-40/-30	50
-30/-20	51
-20/-10	53
-10/0	54
0/10	55
10/20	56
20/30	57
30/40	57
40/50	58
50/60	60
60/70	60
70/80	61
80/90	61
90/100	62
100/110	63
110/120	64
120/130	65
130/140	66
140/150	66
150/160	67

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.972	0.945
2200	0.982	0.964
2000	0.997	0.994
1800	0.997	0.994
1600	0.997	0.994
1400	0.997	0.994
1200	0.997	0.994
1060	0.997	0.994
1000	0.997	0.994
950	0.997	0.994
900	0.997	0.994
850	0.997	0.994
800	0.997	0.994
750	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.995	0.990
550	0.993	0.986
500	0.970	0.941
480	0.960	0.921
460	0.946	0.894
440	0.923	0.853
420	0.870	0.756
400	0.546	0.298
390	0.181	0.033
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(450)/390
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	424/391

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

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