

ZF6	755275	$n_d = 1.75520$	$v_d = 27.53$	$n_F - n_C = 0.027432$
		$n_e = 1.76168$	$v_e = 27.32$	$n_{F'} - n_{C'} = 0.027881$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.70796
n_{1970}	1970.09	1.71296
n_{1530}	1529.58	1.71906
n_{1129}	1128.64	1.72604
n_{1064}	1064.00	1.72757
n_t	1013.98	1.72890
n_s	852.11	1.73456
$n_{A'}$	768.19	1.73884
n_r	706.52	1.74299
n_C	656.27	1.74729
$n_{C'}$	643.85	1.74852
n_{He-Ne}	632.80	1.74968
n_D	589.29	1.75496
n_d	587.56	1.75520
n_e	546.07	1.76168
n_F	486.13	1.77472
$n_{F'}$	479.99	1.77640
n_g	435.84	1.79122
n_h	404.66	1.80589
n_i	365.01	1.83340

Constants of Dispersion Formula	
A_0	2.96120222E+00
A_1	-9.41359191E-03
A_2	3.65105867E-02
A_3	2.28852534E-03
A_4	-1.42034085E-04
A_5	1.84318687E-05

Density	
ρ (g/cm ³)	4.78

Solarization	
$\Delta\lambda$ (%)	-0.4

Relative Partial Dispersion	
$P_{d,C}$	0.2883
$P_{e,d}$	0.2362
$P_{g,F}$	0.6015
$P'_{d,c'}$	0.2396
$P'_{e,d}$	0.2324
$P'_{g,F'}$	0.5315

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	0.0036
$\Delta P_{C,t}$	-0.0031
$\Delta P_{C,s}$	-0.0024

Thermal Properties	
Tg (°C)	436
Ts (°C)	471
T ₁₀ ^{14.5} (°C)	378
T ₁₀ ¹³ (°C)	401
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	82
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	94
λ (W/(m·K))	0.72

Mechanical Properties	
HK (10 ⁷ Pa)	368
F _A	232
E (GPa)	55.4
G (GPa)	22.7
μ	0.220
σ_b (MPa)	
B (10 ⁻¹² /Pa)	1.24

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _W	1
D _A	3
R _{OH} (S)	2
RP (S)	2

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	75
-40/-30	77
-30/-20	79
-20/-10	79
-10/0	80
0/10	81
10/20	82
20/30	83
30/40	84
40/50	84
50/60	85
60/70	85
70/80	85
80/90	86
90/100	87
100/110	87
110/120	88
120/130	89
130/140	90
140/150	91
150/160	91

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.953	0.909
2200	0.968	0.934
2000	0.989	0.970
1800	0.994	0.984
1600	0.998	0.996
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	0.998	0.996
500	0.998	0.996
480	0.997	0.994
460	0.995	0.990
440	0.992	0.983
420	0.983	0.967
400	0.966	0.933
390	0.948	0.898
380	0.910	0.830
370	0.828	0.686
360	0.628	0.394
350	0.250	0.063
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	400/350
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	377/349

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	3.9	4.1	5.1	5.2	5.3	6.0	6.7	7.8	7.9	9.1
-40 ~ -20	4.3	4.8	5.5	5.6	5.7	6.4	7.1	8.3	8.4	10.1
-20 ~ 0	5.0	5.4	6.6	6.6	6.7	7.3	7.7	9.5	9.6	11.6
0 ~ 20	5.8	5.9	7.2	7.3	7.4	8.0	8.7	10.3	10.3	12.5
20 ~ 40	6.2	6.4	7.7	7.8	7.9	8.7	9.4	11.2	11.2	13.4
40 ~ 60	6.3	6.9	8.1	8.2	8.3	8.9	9.7	11.9	11.9	13.9
60 ~ 80	6.5	7.2	8.4	8.5	8.6	9.2	10.2	12.1	12.2	14.3
80 ~ 100	6.6	7.5	8.8	8.9	8.9	9.5	10.5	12.4	12.5	14.7
100 ~ 120	6.9	7.6	9.0	9.2	9.2	9.7	11.1	12.9	12.9	15.0
120 ~ 140	7.2	7.7	9.3	9.4	9.4	10.1	11.4	13.2	13.3	15.4
140 ~ 160	7.5	7.8	9.4	9.5	9.6	10.2	11.7	13.5	13.6	15.8

Constants of dn/dt		
D ₀	D ₁	D ₂
5.44E-06	2.85E-08	-7.94E-11
E ₀	E ₁	λ_{TK}
1.62E-06	1.76E-09	2.41E-01