

ZF7L	805255	$n_d = 1.80518$	$v_d = 25.46$	$n_F - n_C = 0.031620$
		$n_e = 1.81265$	$v_e = 25.27$	$n_{F'} - n_{C'} = 0.032161$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.75298
n_{1970}	1970.09	1.75808
n_{1530}	1529.58	1.76445
n_{1129}	1128.64	1.77203
n_{1064}	1064.00	1.77373
n_t	1013.98	1.77521
n_s	852.11	1.78159
$n_{A'}$	768.19	1.78645
n_r	706.52	1.79118
n_C	656.27	1.79611
$n_{C'}$	643.85	1.79752
n_{He-Ne}	632.80	1.79885
n_D	589.29	1.80491
n_d	587.56	1.80518
n_e	546.07	1.81265
n_F	486.13	1.82773
$n_{F'}$	479.99	1.82968
n_g	435.84	1.84704
n_h	404.66	1.86436
n_i	365.01	1.89719

Constants of Dispersion Formula	
A_0	3.11669081E+00
A_1	-9.59227399E-03
A_2	4.35039882E-02
A_3	2.45457058E-03
A_4	-1.14670084E-04
A_5	2.12993988E-05

Density		Solarization	
ρ (g/cm ³)	5.17	$\Delta\lambda$ (%)	-0.9

Relative Partial Dispersion	
$P_{d,C}$	0.2868
$P_{e,d}$	0.2362
$P_{g,F}$	0.6107
$P'_{d,c'}$	0.2382
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5398

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0008
$\Delta P_{g,F}$	0.0094
$\Delta P_{C,t}$	-0.0025
$\Delta P_{C,s}$	-0.0023

Thermal Properties	
Tg (°C)	440
Ts (°C)	472
T ₁₀ ^{14.5} (°C)	413
T ₁₀ ¹³ (°C)	422
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	78
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	90
λ (W/(m·K))	1.08

Mechanical Properties	
HK (10 ⁷ Pa)	351
F _A	251
E (GPa)	58.9
G (GPa)	22.1
μ	0.240
σ_b (MPa)	53.7
B (10 ⁻¹² /Pa)	0.76

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _W	1
D _A	4
R _{OH} (S)	2
RP (S)	2

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	72
-40/-30	74
-30/-20	75
-20/-10	76
-10/0	77
0/10	78
10/20	79
20/30	79
30/40	80
40/50	80
50/60	81
60/70	81
70/80	82
80/90	82
90/100	83
100/110	84
110/120	84
120/130	85
130/140	86
140/150	87
150/160	88

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.960	0.922
2200	0.977	0.955
2000	0.990	0.980
1800	0.998	0.996
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	0.996	0.992
460	0.994	0.989
440	0.989	0.976
420	0.972	0.930
400	0.924	0.839
390	0.870	0.742
380	0.771	0.582
370	0.576	0.325
360	0.251	0.064
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	425/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	389/359

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	6.8	8.0	8.9	9.0	9.1	9.6	10.4	12.6	12.7	15.0
-40 ~ -20	6.9	8.1	9.0	9.1	9.2	9.8	10.8	12.9	13.0	15.6
-20 ~ 0	7.1	8.2	9.3	9.3	9.4	10.2	11.1	13.3	13.4	16.1
0 ~ 20	7.3	8.4	9.5	9.5	9.6	10.4	11.5	13.7	13.7	16.6
20 ~ 40	7.4	8.5	9.7	9.7	9.8	10.5	11.6	14.0	14.1	17.0
40 ~ 60	7.8	8.8	9.9	9.9	10.1	11.0	11.9	14.4	14.5	17.4
60 ~ 80	8.2	9.1	10.3	10.3	10.5	11.3	12.3	14.9	15.0	18.2
80 ~ 100	8.3	9.2	10.5	10.5	10.6	11.7	12.6	15.4	15.4	18.7
100 ~ 120	8.4	9.4	10.7	10.8	10.9	12.1	13.0	15.8	15.8	19.0
120 ~ 140	8.5	9.5	11.0	11.1	11.2	12.4	13.2	16.0	16.0	19.4
140 ~ 160	8.8	9.7	11.3	11.4	11.5	12.7	13.6	16.3	16.4	19.9

Constants of dn/dt		
D ₀	D ₁	D ₂
8.09E-06	1.60E-08	-2.15E-11
E ₀	E ₁	λ_{TK}
1.62E-06	1.37E-09	2.86E-01