

H-ZF76	959175	$n_d = 1.95906$	$v_d = 17.47$	$n_F - n_C = 0.054890$
		$n_e = 1.97189$	$v_e = 17.33$	$n_{F'} - n_{C'} = 0.056091$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	1.90422
n_{1064}	1064.00	1.90710
n_t	1013.98	1.90958
n_s	852.11	1.92000
$n_{A'}$	768.19	1.92789
n_r	706.52	1.93562
n_C	656.27	1.94375
$n_{C'}$	643.85	1.94611
n_{He-Ne}	632.80	1.94834
n_D	589.29	1.95860
n_d	587.56	1.95906
n_e	546.07	1.97189
n_F	486.13	1.99865
$n_{F'}$	479.99	2.00220
n_g	435.84	2.03469
n_h	404.66	2.06909
n_i	365.01	

Constants of Dispersion Formula	
A_0	3.61187240E+00
A_1	-2.77611102E-02
A_2	5.45160847E-02
A_3	1.18687253E-02
A_4	-1.30897352E-03
A_5	1.41185183E-04

Density		Solarization	
ρ (g/cm ³)	3.56	$\Delta\lambda$ (%)	-0.3

Relative Partial Dispersion	
$P_{d,C}$	0.2789
$P_{e,d}$	0.2337
$P_{g,F}$	0.6566
$P'_{d,c'}$	0.2309
$P'_{e,d}$	0.2287
$P'_{g,F'}$	0.5792

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0070
$\Delta P_{g,F}$	0.0420
$\Delta P_{C,t}$	-0.0022
$\Delta P_{C,s}$	-0.0096

Thermal Properties	
Tg (°C)	683
Ts (°C)	712
T ₁₀ ^{14.5} (°C)	605
T ₁₀ ¹³ (°C)	655
$\alpha_{-50/80^\circ C}$ (10 ⁻⁷ /K)	59
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	73
λ (W/(m·K))	

Mechanical Properties	
HK (10 ⁷ Pa)	494
F _A	178
E (GPa)	102.9
G (GPa)	41.2
μ	0.249
σ_b (MPa)	79
B (10 ⁻¹² /Pa)	3.58

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	53
-40/-30	55
-30/-20	56
-20/-10	57
-10/0	58
0/10	58
10/20	59
20/30	60
30/40	62
40/50	62
50/60	62
60/70	62
70/80	65
80/90	65
90/100	65
100/110	67
110/120	67
120/130	68
130/140	70
140/150	70
150/160	70

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.976	0.953
2200	0.990	0.980
2000	0.992	0.984
1800	0.996	0.991
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	0.998	0.996
650	0.997	0.994
600	0.996	0.992
550	0.988	0.977
500	0.972	0.944
480	0.957	0.917
460	0.936	0.876
440	0.897	0.804
420	0.805	0.648
400	0.370	0.137
390		
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

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	-0.2	0.4	0.5	0.6	1.1	2.0	3.9	4.1	6.8
-40~-20	-0.4	-0.2	0.5	0.6	0.7	1.2	2.4	4.2	4.4	7.1
-20~0	-0.2	-0.1	0.7	0.9	1.0	1.4	2.7	4.6	4.7	7.7
0~20	0.1	0.0	0.9	1.1	1.2	1.8	3.1	4.9	5.0	8.2
20~40	0.1	0.2	1.1	1.3	1.4	2.0	3.3	5.2	5.3	8.5
40~60	0.2	0.4	1.2	1.4	1.5	2.4	3.4	5.4	5.6	9.1
60~80	0.6	0.8	1.4	1.6	1.8	2.7	3.8	5.7	5.9	9.6
80~100	0.8	1.3	1.6	1.9	2.1	3.0	4.2	6.0	6.3	10.0
100~120	0.9	1.5	1.9	2.1	2.5	3.1	4.3	6.5	6.8	10.5
120~140	1.0	1.7	2.0	2.3	2.6	3.4	4.5	6.8	7.2	10.9
140~160	1.1	1.7	2.2	2.5	2.7	3.6	4.7	7.1	7.5	11.3

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(460)/395
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	438/397

Constants of dn/dt		
D ₀	D ₁	D ₂
-3.83E-06	1.49E-08	-2.21E-11
E ₀	E ₁	λ_{TK}
9.49E-07	6.87E-10	3.36E-01