

H-ZF56	855248	$n_d = 1.85478$	$v_d = 24.80$	$n_F - n_C = 0.034469$
		$n_e = 1.86290$	$v_e = 24.61$	$n_{F'} - n_{C'} = 0.035057$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.79256
n_{1970}	1970.09	1.79984
n_{1530}	1529.58	1.80851
n_{1129}	1128.64	1.81792
n_{1064}	1064.00	1.81992
n_t	1013.98	1.82165
n_s	852.11	1.82888
$n_{A'}$	768.19	1.83428
n_r	706.52	1.83948
n_C	656.27	1.84488
$n_{C'}$	643.85	1.84642
n_{He-Ne}	632.80	1.84787
n_D	589.29	1.85448
n_d	587.56	1.85478
n_e	546.07	1.86290
n_F	486.13	1.87935
$n_{F'}$	479.99	1.88147
n_g	435.84	1.90044
n_h	404.66	1.91945
n_i	365.01	1.95583

Constants of Dispersion Formula	
A_0	3.28426529E+00
A_1	-1.47934043E-02
A_2	4.81498133E-02
A_3	2.74086829E-03
A_4	-1.33744832E-04
A_5	2.63779943E-05

Density		Solarization	
ρ (g/cm ³)	3.49	$\Delta\lambda$ (%)	-3.3

Relative Partial Dispersion	
$P_{d,C}$	0.2872
$P_{e,d}$	0.2356
$P_{g,F}$	0.6119
$P'_{d,c'}$	0.2385
$P'_{e,d}$	0.2316
$P'_{g,F'}$	0.5411

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0007
$\Delta P_{g,F}$	0.0094
$\Delta P_{C,t}$	0.0137
$\Delta P_{C,s}$	0.0043

Thermal Properties	
Tg (°C)	585
Ts (°C)	623
T ₁₀ ^{14.5} (°C)	530
T ₁₀ ¹³ (°C)	563
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	76
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	97
λ (W/(m·K))	1.13

Mechanical Properties	
HK (10 ⁷ Pa)	572
F _A	201
E (GPa)	106.5
G (GPa)	42.3
μ	0.257
σ_b (MPa)	85
B (10 ⁻¹² /Pa)	3.06

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	64
-40/-30	67
-30/-20	73
-20/-10	73
-10/0	74
0/10	74
10/20	77
20/30	80
30/40	80
40/50	80
50/60	83
60/70	85
70/80	85
80/90	86
90/100	88
100/110	88
110/120	89
120/130	89
130/140	93
140/150	93
150/160	95

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.978	0.956
2200	0.985	0.970
2000	0.995	0.989
1800	0.996	0.992
1600	0.998	0.996
1400	0.998	0.997
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	0.999	0.997
650	0.998	0.996
600	0.998	0.995
550	0.995	0.991
500	0.988	0.977
480	0.984	0.969
460	0.978	0.957
440	0.967	0.935
420	0.943	0.890
400	0.893	0.797
390	0.845	0.714
380	0.763	0.582
370	0.592	0.351
360	0.283	0.080
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	0.3	0.7	1.3	1.4	1.5	1.7	2.1	2.6	2.8	4.7
-40~-20	0.6	1.0	1.6	1.6	1.8	2.1	2.6	3.1	3.2	5.3
-20~0	0.8	1.2	1.8	1.8	1.9	2.3	2.9	3.3	3.4	5.7
0~20	1.0	1.3	2.0	2.1	2.2	2.6	3.1	3.5	3.7	6.0
20~40	1.1	1.5	2.3	2.4	2.5	2.9	3.4	3.8	4.0	6.5
40~60	1.2	1.8	2.6	2.6	2.7	3.2	3.6	4.2	4.3	6.9
60~80	1.4	2.1	2.8	2.9	3.1	3.5	4.0	4.6	4.7	7.3
80~100	1.5	2.4	3.0	3.1	3.3	3.7	4.3	4.9	5.1	7.6
100~120	1.7	2.6	3.2	3.3	3.5	3.9	4.6	5.2	5.3	8.0
120~140	1.8	2.7	3.5	3.6	3.7	4.1	4.8	5.4	5.6	8.2
140~160	1.9	2.8	3.8	3.8	3.9	4.3	5.1	5.6	5.7	8.5

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(405)/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	400/359

Constants of dn/dt		
D ₀	D ₁	D ₂
-1.60E-06	1.75E-08	-2.60E-11
E ₀	E ₁	λ_{TK}
6.93E-07	5.83E-10	3.15E-01