

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_f	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

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

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.971	0.943
2200	0.982	0.964
2000	0.992	0.985
1800	0.994	0.988
1600	0.997	0.995
1400	0.998	0.996
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	0.996	0.992
500	0.991	0.982
480	0.988	0.975
460	0.983	0.967
440	0.976	0.953
420	0.961	0.924
400	0.929	0.862
390	0.897	0.804
380	0.835	0.697
370	0.683	0.466
360	0.361	0.131
350		
340		
330		
320		
310		
300		
290		
280		

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

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	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

Thermal Properties	
T _g ($^{\circ}C$)	585
T _s ($^{\circ}C$)	623
T ₁₀ ^{14.5} ($^{\circ}C$)	530
T ₁₀ ¹³ ($^{\circ}C$)	563
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	76
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	97
λ (W/(m K))	1.23

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

Mechanical Properties	
HK (10^7 Pa)	572
F _A	201
E (GPa)	106.5
G (GPa)	42.3
μ	0.257
σ_b (MPa)	106
B (10^{-12} /Pa)	3.06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.49	-1.7

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	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	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(395)/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	390/355

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