

H-ZF5GT	740283	$n_d = 1.74000$	$v_d = 28.30$	$n_F - n_C = 0.026152$
		$n_e = 1.74617$	$v_e = 28.07$	$n_{F'} - n_{C'} = 0.026584$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.69091
n_{1970}	1970.09	1.69701
n_{1530}	1529.58	1.70416
n_{1129}	1128.64	1.71169
n_{1064}	1064.00	1.71325
n_t	1013.98	1.71459
n_s	852.11	1.72020
$n_{A'}$	768.19	1.72435
n_r	706.52	1.72833
n_C	656.27	1.73245
$n_{C'}$	643.85	1.73363
n_{He-Ne}	632.80	1.73474
n_D	589.29	1.73977
n_d	587.56	1.74000
n_e	546.07	1.74617
n_F	486.13	1.75861
$n_{F'}$	479.99	1.76021
n_g	435.84	1.77450
n_h	404.66	1.78876
n_i	365.01	1.81588

Constants of Dispersion Formula	
A_0	2.91687382E+00
A_1	-1.18527790E-02
A_2	3.42689145E-02
A_3	2.02963652E-03
A_4	-1.14580838E-04
A_5	1.85928308E-05

Density	
ρ (g/cm ³)	3.09

Solarization	
$\Delta\lambda$ (%)	0.0

Relative Partial Dispersion	
$P_{d,C}$	0.2887
$P_{e,d}$	0.2359
$P_{g,F}$	0.6076
$P'_{d,c'}$	0.2396
$P'_{e,d}$	0.2321
$P'_{g,F'}$	0.5375

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0011
$\Delta P_{g,F}$	0.0110
$\Delta P_{C,t}$	0.0057
$\Delta P_{C,s}$	0.0001

Thermal Properties	
T _g (°C)	610
T _s (°C)	640
T ₁₀ ^{14.5} (°C)	543
T ₁₀ ¹³ (°C)	574
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	86
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	107
λ (W/(m·K))	1.15

Mechanical Properties	
HK (10 ⁷ Pa)	580
F _A	162
E (GPa)	91.2
G (GPa)	35.6
μ	0.283
σ_b (MPa)	61.9
B (10 ⁻¹² /Pa)	2.58

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	76
-40/-30	78
-30/-20	80
-20/-10	82
-10/0	83
0/10	84
10/20	84
20/30	85
30/40	86
40/50	86
50/60	87
60/70	87
70/80	88
80/90	89
90/100	90
100/110	91
110/120	93
120/130	94
130/140	95
140/150	97
150/160	98

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.937	0.878
2200	0.962	0.925
2000	0.991	0.982
1800	0.997	0.994
1600	0.997	0.994
1400	0.997	0.994
1200	0.997	0.994
1060	0.997	0.994
1000	0.997	0.994
950	0.997	0.994
900	0.997	0.994
850	0.997	0.994
800	0.997	0.994
750	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.997	0.994
550	0.995	0.992
500	0.992	0.988
480	0.990	0.985
460	0.988	0.981
440	0.985	0.973
420	0.978	0.957
400	0.952	0.907
390	0.912	0.834
380	0.807	0.657
370	0.535	0.292
360	0.113	0.016
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	410/365
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	388/362

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	-0.8	-0.5	-0.3	-0.3	-0.2	0.1	1.0	1.7	1.8	3.2
-40 ~ -20	-0.6	-0.3	-0.2	-0.2	-0.1	0.2	1.2	1.8	2.0	3.4
-20 ~ 0	-0.2	0.0	0.1	0.1	0.1	0.6	1.4	2.2	2.3	3.7
0 ~ 20	0.0	0.2	0.3	0.3	0.3	0.8	1.9	2.5	2.6	3.9
20 ~ 40	0.0	0.3	0.6	0.7	0.8	1.1	1.9	2.6	2.7	4.4
40 ~ 60	0.2	0.5	0.9	1.0	1.1	1.4	2.1	2.9	3.0	4.7
60 ~ 80	0.3	0.8	1.3	1.4	1.5	1.8	2.5	3.3	3.4	5.2
80 ~ 100	0.4	1.0	1.6	1.7	1.9	2.1	2.8	3.8	3.9	5.7
100 ~ 120	0.5	1.2	1.9	2.1	2.2	2.2	3.1	4.2	4.3	6.1
120 ~ 140	0.8	1.4	2.2	2.4	2.5	2.6	3.3	4.4	4.5	6.4
140 ~ 160	1.0	1.5	2.3	2.5	2.6	2.8	3.5	4.7	4.8	6.7

Constants of dn/dt		
D ₀	D ₁	D ₂
-4.00E-06	1.95E-08	-2.24E-11
E ₀	E ₁	λ_{TK}
7.71E-07	5.88E-10	3.10E-01