

H-ZF2	673322	$n_d = 1.67270$	$v_d = 32.17$	$n_F - n_C = 0.020910$
		$n_e = 1.67764$	$v_e = 31.92$	$n_{F'} - n_{C'} = 0.021227$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.63037
n_{1970}	1970.09	1.63613
n_{1530}	1529.58	1.64275
n_{1129}	1128.64	1.64942
n_{1064}	1064.00	1.65076
n_t	1013.98	1.65190
n_s	852.11	1.65659
$n_{A'}$	768.19	1.66001
n_f	706.52	1.66327
n_C	656.27	1.66661
$n_{C'}$	643.85	1.66756
n_{He-Ne}	632.80	1.66846
n_D	589.29	1.67252
n_d	587.56	1.67270
n_e	546.07	1.67764
n_F	486.13	1.68752
$n_{F'}$	479.99	1.68879
n_g	435.84	1.70004
n_h	404.66	1.71115
n_i	365.01	1.73203

Relative Partial Dispersion	
$P_{d,C}$	0.2912
$P_{e,d}$	0.2363
$P_{g,F}$	0.5988
$P'_{d,c'}$	0.2421
$P'_{e,d}$	0.2327
$P'_{g,f'}$	0.5300

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.930	0.865
2200	0.952	0.906
2000	0.986	0.972
1800	0.996	0.992
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	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.997	0.993
500	0.995	0.989
480	0.993	0.987
460	0.991	0.984
440	0.989	0.979
420	0.986	0.970
400	0.971	0.937
390	0.943	0.883
380	0.868	0.747
370	0.655	0.426
360	0.225	0.052
350		
340		
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0086
$\Delta P_{C,t}$	0.0075
$\Delta P_{C,s}$	0.0016

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	76
-40/-30	79
-30/-20	80
-20/-10	82
-10/0	84
0/10	86
10/20	87
20/30	88
30/40	89
40/50	89
50/60	90
60/70	90
70/80	91
80/90	92
90/100	93
100/110	94
110/120	95
120/130	97
130/140	98
140/150	99
150/160	100

Thermal Properties	
T _g ($^{\circ}C$)	592
T _s ($^{\circ}C$)	627
T ₁₀ ^{14.5} ($^{\circ}C$)	518
T ₁₀ ¹³ ($^{\circ}C$)	560
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	85
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	107
λ (W/(m K))	1.20

Constants of Dispersion Formula	
A ₀	2.71254884E+00
A ₁	-1.09981079E-02
A ₂	2.69930833E-02
A ₃	1.44291354E-03
A ₄	-8.34857219E-05
A ₅	1.26851609E-05

Mechanical Properties	
HK (10^7 Pa)	569
F _A	140
E (GPa)	82.1
G (GPa)	33.2
μ	0.237
σ_b (MPa)	89
B (10^{-12} /Pa)	2.53

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
2.90	-0.2

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	0.7	1.0	1.4	1.4	1.5	1.7	2.0	2.9	3.0	3.7
-40 ~ -20	0.7	1.0	1.4	1.4	1.4	1.8	2.0	2.9	3.0	3.8
-20 ~ 0	0.7	1.1	1.4	1.5	1.5	1.8	2.1	3.0	3.1	4.0
0 ~ 20	0.7	1.1	1.5	1.5	1.6	1.8	2.2	3.1	3.2	4.2
20 ~ 40	0.7	1.1	1.5	1.5	1.6	1.8	2.3	3.3	3.3	4.5
40 ~ 60	0.7	1.3	1.6	1.6	1.7	2.1	2.5	3.5	3.6	4.5
60 ~ 80	0.9	1.4	1.7	1.8	1.8	2.3	2.5	3.7	3.8	4.8
80 ~ 100	0.9	1.5	1.8	1.9	2.0	2.4	2.7	4.0	4.0	4.9
100 ~ 120	1.0	1.6	2.0	2.1	2.1	2.6	2.8	4.1	4.1	5.1
120 ~ 140	1.2	1.8	2.2	2.3	2.3	2.8	3.1	4.2	4.3	5.2
140 ~ 160	1.2	1.8	2.3	2.4	2.4	2.9	3.3	4.3	4.4	5.5

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	395/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	382/360

Constants of dn/dt		
D ₀	D ₁	D ₂
-2.44E-06	1.28E-08	-1.52E-11
E ₀	E ₁	λ_{TK}
8.60E-07	6.85E-10	2.66E-01