

H-ZLaF68A	883408	$n_d = 1.88300$	$v_d = 40.79$	$n_F - n_C = 0.021645$
		$n_e = 1.88815$	$v_e = 40.56$	$n_F - n_C = 0.021897$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.83774
n_{1970}	1970.09	1.84375
n_{1530}	1529.58	1.85077
n_{1129}	1128.64	1.85799
n_{1064}	1064.00	1.85944
n_t	1013.98	1.86069
n_s	852.11	1.86579
$n_{A'}$	768.19	1.86950
n_f	706.52	1.87299
n_C	656.27	1.87657
$n_{C'}$	643.85	1.87758
n_{He-Ne}	632.80	1.87853
n_D	589.29	1.88281
n_d	587.56	1.88300
n_e	546.07	1.88815
n_F	486.13	1.89821
$n_{F'}$	479.99	1.89948
n_g	435.84	1.91053
n_h	404.66	1.92097
n_i	365.01	1.93924

Relative Partial Dispersion	
$P_{d,C}$	0.2971
$P_{e,d}$	0.2379
$P_{g,F}$	0.5692
$P'_{d,c'}$	0.2475
$P'_{e,d}$	0.2352
$P'_{g,F'}$	0.5046

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.949	0.900
2200	0.993	0.985
2000	0.999	0.998
1800	0.999	0.998
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	0.995
500	0.994	0.992
480	0.991	0.989
460	0.988	0.985
440	0.984	0.981
420	0.980	0.960
400	0.970	0.937
390	0.956	0.909
380	0.937	0.873
370	0.903	0.815
360	0.857	0.730
350	0.785	0.607
340	0.695	0.476
330	0.572	0.318
320	0.401	0.155
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0029
$\Delta P_{g,F}$	-0.0067
$\Delta P_{C,t}$	-0.0041
$\Delta P_{C,s}$	-0.0003

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	61
-40/-30	62
-30/-20	64
-20/-10	65
-10/0	66
0/10	67
10/20	68
20/30	69
30/40	70
40/50	70
50/60	71
60/70	71
70/80	72
80/90	73
90/100	74
100/110	75
110/120	76
120/130	77
130/140	78
140/150	79
150/160	80

Thermal Properties	
T _g ($^{\circ}C$)	698
T _s ($^{\circ}C$)	746
T ₁₀ ^{14.5} ($^{\circ}C$)	629
T ₁₀ ¹³ ($^{\circ}C$)	667
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	68
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	83
λ (W/(m K))	0.98

Constants of Dispersion Formula	
A ₀	3.43996305E+00
A ₁	-1.28171243E-02
A ₂	3.56469712E-02
A ₃	7.18879378E-04
A ₄	3.46401317E-05
A ₅	-9.50101800E-08

Mechanical Properties	
HK (10^7 Pa)	682
F _A	58
E (GPa)	120.9
G (GPa)	46.5
μ	0.301
σ_b (MPa)	95
B (10^{-12} /Pa)	1.32

Density		Solarization	
ρ (g/cm ³)	5.47	$\Delta\lambda$ (%)	-2.1

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	4.7	5.2	5.5	5.6	5.7	6.0	6.5	7.1	7.2	7.9
-40 ~ -20	4.7	5.2	5.5	5.6	5.7	6.0	6.4	7.2	7.3	8.0
-20 ~ 0	4.7	5.2	5.5	5.6	5.7	6.0	6.5	7.3	7.4	8.1
0 ~ 20	4.7	5.2	5.5	5.6	5.7	6.0	6.4	7.3	7.4	8.2
20 ~ 40	4.7	5.2	5.5	5.6	5.7	6.0	6.5	7.4	7.4	8.3
40 ~ 60	4.8	5.3	5.6	5.7	5.8	6.1	6.6	7.5	7.5	8.4
60 ~ 80	4.9	5.6	5.8	6.0	6.1	6.4	6.9	7.7	7.8	8.7
80 ~ 100	4.9	5.9	6.0	6.2	6.3	6.6	7.0	8.0	8.1	9.0
100 ~ 120	5.0	6.1	6.3	6.5	6.5	6.8	7.4	8.1	8.2	9.2
120 ~ 140	5.1	6.3	6.5	6.6	6.7	6.9	7.6	8.3	8.4	9.4
140 ~ 160	5.3	6.5	6.7	6.8	6.9	7.1	7.8	8.5	8.6	9.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(370)/315
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	368/313

Constants of dn/dt		
D ₀	D ₁	D ₂
3.73E-06	1.16E-08	-5.36E-12
E ₀	E ₁	λ_{TK}
8.04E-07	3.83E-10	2.13E-01