

H-ZLaF59 852408	$n_d = 1.85150$	$v_d = 40.78$	$n_F - n_C = 0.020880$
	$n_e = 1.85646$	$v_e = 40.53$	$n_{F'} - n_{C'} = 0.021134$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.80328
n_{1970}	1970.09	1.81065
n_{1530}	1529.58	1.81893
n_{1129}	1128.64	1.82685
n_{1064}	1064.00	1.82837
n_t	1013.98	1.82965
n_s	852.11	1.83478
$n_{A'}$	768.19	1.83842
n_r	706.52	1.84183
n_C	656.27	1.84530
$n_{C'}$	643.85	1.84628
n_{He-Ne}	632.80	1.84719
n_D	589.29	1.85132
n_d	587.56	1.85150
n_e	546.07	1.85646
n_F	486.13	1.86618
$n_{F'}$	479.99	1.86741
n_g	435.84	1.87807
n_h	404.66	1.88823
n_i	365.01	1.90623

Constants of Dispersion Formula	
A_0	3.33177670E+00
A_1	-1.58867083E-02
A_2	3.20181245E-02
A_3	1.14888430E-03
A_4	-4.03184280E-05
A_5	5.06235629E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.72	-0.4

Relative Partial Dispersion	
$P_{d,C}$	0.2969
$P_{e,d}$	0.2375
$P_{g,F}$	0.5694
$P'_{d,c'}$	0.2470
$P'_{e,d}$	0.2347
$P'_{g,F'}$	0.5044

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0064
$\Delta P_{C,t}$	0.0118
$\Delta P_{C,s}$	0.0056

Thermal Properties	
T _g (°C)	677
T _s (°C)	701
T ₁₀ ^{14.5} (°C)	632
T ₁₀ ¹³ (°C)	667
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	62
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	78
λ (W/(m·K))	1.02

Mechanical Properties	
HK (10 ⁷ Pa)	720
F _A	68
E (GPa)	121.8
G (GPa)	46.4
μ	0.312
σ_b (MPa)	64.9
B (10 ⁻¹² /Pa)	1.25

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _W	1
D _A	3
R _{OH} (S)	1
RP (S)	1

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	56
-40/-30	58
-30/-20	60
-20/-10	61
-10/0	63
0/10	63
10/20	64
20/30	65
30/40	66
40/50	66
50/60	67
60/70	67
70/80	68
80/90	69
90/100	70
100/110	71
110/120	72
120/130	73
130/140	74
140/150	76
150/160	77

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.861	0.742
2200	0.972	0.945
2000	0.995	0.990
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	0.998	0.996
500	0.996	0.993
480	0.994	0.990
460	0.991	0.987
440	0.988	0.979
420	0.982	0.971
400	0.972	0.950
390	0.961	0.929
380	0.942	0.893
370	0.906	0.829
360	0.827	0.693
350	0.666	0.451
340	0.357	0.131
330	0.059	0.010
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(380)/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	367/335

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	3.7	4.1	4.5	4.5	4.6	4.7	5.1	5.8	5.9	6.7
-40 ~ -20	3.7	4.1	4.5	4.6	4.6	4.8	5.2	5.9	6.0	6.8
-20 ~ 0	3.7	4.1	4.6	4.6	4.7	4.9	5.4	6.0	6.1	6.9
0 ~ 20	3.7	4.2	4.6	4.6	4.7	5.0	5.3	6.1	6.2	7.0
20 ~ 40	3.7	4.3	4.7	4.7	4.8	5.0	5.4	6.2	6.3	7.2
40 ~ 60	3.8	4.4	4.8	4.8	4.9	5.0	5.4	6.3	6.4	7.3
60 ~ 80	3.9	4.5	4.9	5.0	5.0	5.2	5.6	6.5	6.6	7.5
80 ~ 100	4.1	4.6	5.0	5.1	5.1	5.3	5.6	6.6	6.7	7.7
100 ~ 120	4.2	4.7	5.2	5.3	5.3	5.5	5.7	6.7	6.8	7.8
120 ~ 140	4.3	4.8	5.3	5.4	5.4	5.5	5.8	6.8	6.9	7.9
140 ~ 160	4.4	4.9	5.4	5.4	5.5	5.7	6.0	6.9	7.0	8.0

Constants of dn/dt		
D ₀	D ₁	D ₂
2.71E-06	1.23E-08	-1.91E-11
E ₀	E ₁	λ_{TK}
6.47E-07	2.76E-10	2.55E-01