

H-ZLaF50	804466	$n_d = 1.80400$	$v_d = 46.58$	$n_F - n_C = 0.017262$
		$n_e = 1.80811$	$v_e = 46.33$	$n_{F'} - n_{C'} = 0.017443$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.76102
n_{1970}	1970.09	1.76802
n_{1530}	1529.58	1.77579
n_{1129}	1128.64	1.78299
n_{1064}	1064.00	1.78434
n_t	1013.98	1.78546
n_s	852.11	1.78990
$n_{A'}$	768.19	1.79302
n_r	706.52	1.79590
n_C	656.27	1.79882
$n_{C'}$	643.85	1.79964
n_{He-Ne}	632.80	1.80041
n_D	589.29	1.80385
n_d	587.56	1.80400
n_e	546.07	1.80811
n_F	486.13	1.81608
$n_{F'}$	479.99	1.81708
n_g	435.84	1.82569
n_h	404.66	1.83377
n_i	365.01	1.84783

Constants of Dispersion Formula	
A_0	3.17704600E+00
A_1	-1.49215351E-02
A_2	2.59816690E-02
A_3	1.02205007E-03
A_4	-6.86208852E-05
A_5	4.99362397E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.47	-0.6

Relative Partial Dispersion	
$P_{d,C}$	0.3001
$P_{e,d}$	0.2381
$P_{g,F}$	0.5567
$P'_{d,c'}$	0.2500
$P'_{e,d}$	0.2356
$P'_{g,F'}$	0.4936

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0028
$\Delta P_{g,F}$	-0.0095
$\Delta P_{C,t}$	0.0081
$\Delta P_{C,s}$	0.0045

Thermal Properties	
Tg (°C)	688
Ts (°C)	713
T ₁₀ ^{14.5} (°C)	619
T ₁₀ ¹³ (°C)	663
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	61
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	76
λ (W/(m·K))	1.00

Mechanical Properties	
HK (10 ⁷ Pa)	712
F _A	65
E (GPa)	123.2
G (GPa)	46.2
μ	0.334
σ_b (MPa)	99.6
B (10 ⁻¹² /Pa)	1.27

Chemical Properties (grade)	
RC (S)	1
RA (S)	2
D _W	1
D _A	3
R _{OH} (S)	1
RP (S)	1

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	54
-40/-30	57
-30/-20	58
-20/-10	59
-10/0	60
0/10	61
10/20	62
20/30	63
30/40	63
40/50	64
50/60	64
60/70	64
70/80	65
80/90	66
90/100	67
100/110	68
110/120	69
120/130	70
130/140	71
140/150	72
150/160	73

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.834	0.705
2200	0.956	0.916
2000	0.990	0.978
1800	0.995	0.990
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	0.999	0.998
500	0.998	0.995
480	0.996	0.993
460	0.995	0.991
440	0.993	0.986
420	0.990	0.981
400	0.987	0.973
390	0.983	0.963
380	0.974	0.948
370	0.961	0.918
360	0.931	0.869
350	0.891	0.795
340	0.818	0.676
330	0.690	0.489
320	0.460	0.223
310	0.136	0.022
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/315
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	351/312

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	4.3	4.3	4.4	4.6	4.9	5.5	5.5	6.0
-40 ~ -20	3.7	4.1	4.3	4.4	4.5	4.6	4.9	5.5	5.6	6.0
-20 ~ 0	3.8	4.1	4.3	4.4	4.5	4.6	4.9	5.6	5.6	6.1
0 ~ 20	3.8	4.1	4.3	4.4	4.5	4.6	4.9	5.6	5.6	6.1
20 ~ 40	3.8	4.1	4.4	4.4	4.6	4.7	4.9	5.6	5.7	6.1
40 ~ 60	3.8	4.2	4.5	4.5	4.7	4.7	5.0	5.7	5.7	6.3
60 ~ 80	3.9	4.3	4.6	4.7	4.8	4.9	5.2	5.7	5.8	6.5
80 ~ 100	3.9	4.4	4.7	4.7	4.9	5.0	5.3	5.8	6.0	6.7
100 ~ 120	3.9	4.5	4.8	4.8	4.9	5.1	5.5	6.0	6.2	6.8
120 ~ 140	4.0	4.7	4.8	4.9	5.0	5.2	5.6	6.1	6.2	6.8
140 ~ 160	4.1	4.7	4.9	4.9	5.0	5.3	5.7	6.2	6.3	7.0

Constants of dn/dt		
D ₀	D ₁	D ₂
2.88E-06	1.10E-08	-1.72E-11
E ₀	E ₁	λ_{TK}
5.90E-07	3.72E-10	2.17E-01