

H-ZLaF1	802443	$n_d = 1.80166$	$v_d = 44.27$	$n_F - n_C = 0.018110$
		$n_e = 1.80596$	$v_e = 44.05$	$n_{F'} - n_{C'} = 0.018298$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.75717
n_{1970}	1970.09	1.76442
n_{1530}	1529.58	1.77245
n_{1129}	1128.64	1.77986
n_{1064}	1064.00	1.78125
n_t	1013.98	1.78241
n_s	852.11	1.78700
$n_{A'}$	768.19	1.79021
n_r	706.52	1.79321
n_C	656.27	1.79624
$n_{C'}$	643.85	1.79710
n_{He-Ne}	632.80	1.79790
n_D	589.29	1.80150
n_d	587.56	1.80166
n_e	546.07	1.80596
n_F	486.13	1.81435
$n_{F'}$	479.99	1.81540
n_g	435.84	1.82451
n_h	404.66	1.83312
n_i	365.01	1.84826

Constants of Dispersion Formula	
A_0	3.16628243E+00
A_1	-1.54411440E-02
A_2	2.61007358E-02
A_3	1.37123320E-03
A_4	-1.09192053E-04
A_5	7.83345535E-06

Density	
ρ (g/cm ³)	4.41

Solarization	
$\Delta\lambda$ (%)	-0.7

Relative Partial Dispersion	
$P_{d,C}$	0.2993
$P_{e,d}$	0.2374
$P_{g,F}$	0.5610
$P'_{d,c'}$	0.2492
$P'_{e,d}$	0.2350
$P'_{g,F'}$	0.4979

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0025
$\Delta P_{g,F}$	-0.0091
$\Delta P_{C,t}$	0.0090
$\Delta P_{C,s}$	0.0036

Thermal Properties	
T _g (°C)	658
T _s (°C)	687
T ₁₀ ^{14.5} (°C)	596
T ₁₀ ¹³ (°C)	627
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	56
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	74
λ (W/(m·K))	0.92

Mechanical Properties	
HK (10 ⁷ Pa)	681
F _A	75
E (GPa)	121.2
G (GPa)	45.9
μ	0.319
σ_b (MPa)	62.5
B (10 ⁻¹² /Pa)	1.76

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	48
-40/-30	50
-30/-20	50
-20/-10	52
-10/0	57
0/10	54
10/20	55
20/30	59
30/40	61
40/50	58
50/60	59
60/70	61
70/80	62
80/90	62
90/100	64
100/110	62
110/120	64
120/130	68
130/140	70
140/150	71
150/160	72

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.803	0.645
2200	0.935	0.874
2000	0.990	0.980
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	0.999	0.998
500	0.999	0.998
480	0.997	0.994
460	0.995	0.991
440	0.994	0.987
420	0.990	0.981
400	0.984	0.968
390	0.976	0.953
380	0.963	0.927
370	0.936	0.876
360	0.881	0.776
350	0.747	0.558
340	0.485	0.235
330	0.156	0.024
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	363/334

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	4.6	5.0	5.3	5.3	5.4	5.6	5.7	6.4	6.5	7.0
-40 ~ -20	4.6	4.9	5.3	5.3	5.4	5.6	5.7	6.4	6.5	7.2
-20 ~ 0	4.7	4.9	5.3	5.3	5.4	5.7	5.8	6.5	6.5	7.4
0 ~ 20	4.7	4.9	5.3	5.4	5.4	5.8	6.0	6.6	6.6	7.4
20 ~ 40	4.8	4.9	5.4	5.5	5.5	5.8	6.1	6.7	6.7	7.5
40 ~ 60	4.8	5.0	5.5	5.6	5.7	6.0	6.3	6.8	6.9	7.7
60 ~ 80	5.0	5.2	5.7	5.8	5.9	6.3	6.5	7.0	7.1	7.9
80 ~ 100	5.0	5.4	5.9	6.0	6.1	6.4	6.6	7.2	7.2	8.1
100 ~ 120	5.0	5.5	6.1	6.2	6.3	6.6	6.8	7.3	7.4	8.2
120 ~ 140	5.1	5.6	6.2	6.4	6.4	6.7	7.0	7.4	7.5	8.4
140 ~ 160	5.1	5.6	6.3	6.5	6.6	6.9	7.2	7.5	7.6	8.6

Constants of dn/dt		
D ₀	D ₁	D ₂
4.19E-06	1.23E-08	-1.53E-11
E ₀	E ₁	λ_{TK}
7.59E-07	5.64E-10	1.65E-01