

H-ZLaF86	883270	$n_d = 1.88252$	$v_d = 27.00$	$n_F - n_C = 0.032686$
		$n_e = 1.89022$	$v_e = 26.78$	$n_{F'} - n_{C'} = 0.033246$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.82367
n_{1970}	1970.09	1.83046
n_{1530}	1529.58	1.83859
n_{1129}	1128.64	1.84749
n_{1064}	1064.00	1.84939
n_t	1013.98	1.85103
n_s	852.11	1.85790
$n_{A'}$	768.19	1.86304
n_r	706.52	1.86800
n_C	656.27	1.87312
$n_{C'}$	643.85	1.87457
n_{He-Ne}	632.80	1.87595
n_D	589.29	1.88223
n_d	587.56	1.88252
n_e	546.07	1.89022
n_F	486.13	1.90581
$n_{F'}$	479.99	1.90782
n_g	435.84	1.92583
n_h	404.66	1.94392
n_i	365.01	1.97855

Constants of Dispersion Formula	
A_0	3.39234287E+00
A_1	-1.39491556E-02
A_2	4.74887284E-02
A_3	2.28412158E-03
A_4	-8.32791862E-05
A_5	2.34034525E-05

Density	
ρ (g/cm ³)	4.05

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

Relative Partial Dispersion	
$P_{d,C}$	0.2876
$P_{e,d}$	0.2356
$P_{g,F}$	0.6125
$P'_{d,c'}$	0.2391
$P'_{e,d}$	0.2316
$P'_{g,F'}$	0.5417

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0017
$\Delta P_{g,F}$	0.0137
$\Delta P_{C,t}$	0.0049
$\Delta P_{C,s}$	0.0004

Thermal Properties	
T _g (°C)	717
T _s (°C)	762
T ₁₀ ^{14.5} (°C)	678
T ₁₀ ¹³ (°C)	709
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	70
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	83
λ (W/(m·K))	1.13

Mechanical Properties	
HK (10 ⁷ Pa)	608
F _A	94
E (GPa)	112.2
G (GPa)	43.3
μ	0.294
σ_b (MPa)	96.8
B (10 ⁻¹² /Pa)	1.66

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	60
-40/-30	63
-30/-20	63
-20/-10	65
-10/0	68
0/10	69
10/20	70
20/30	73
30/40	74
40/50	75
50/60	75
60/70	75
70/80	76
80/90	76
90/100	76
100/110	77
110/120	78
120/130	79
130/140	80
140/150	81
150/160	83

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.969	0.938
2200	0.987	0.975
2000	0.995	0.991
1800	0.998	0.997
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	0.998	0.997
650	0.998	0.997
600	0.997	0.995
550	0.993	0.987
500	0.982	0.965
480	0.975	0.950
460	0.964	0.929
440	0.944	0.891
420	0.902	0.813
400	0.804	0.647
390	0.701	0.491
380	0.512	0.262
370	0.230	0.053
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(430)/370
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	418/370

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	1.2	1.8	2.1	2.1	2.2	2.4	3.2	4.3	4.5	6.4
-40 ~ -20	1.3	1.9	2.2	2.3	2.4	2.6	3.4	4.5	4.7	6.6
-20 ~ 0	1.4	2.1	2.3	2.5	2.6	2.8	3.5	4.6	4.8	6.7
0 ~ 20	1.6	2.3	2.5	2.6	2.7	3.1	3.7	4.8	4.9	6.9
20 ~ 40	1.8	2.5	2.8	2.9	2.9	3.2	3.8	5.0	5.1	7.1
40 ~ 60	2.0	2.6	2.9	3.0	3.0	3.4	4.1	5.1	5.3	7.3
60 ~ 80	2.1	2.8	3.2	3.3	3.3	3.5	4.3	5.2	5.4	7.6
80 ~ 100	2.3	3.0	3.3	3.4	3.4	3.6	4.5	5.4	5.5	7.7
100 ~ 120	2.3	3.1	3.5	3.6	3.6	3.9	4.6	5.5	5.6	7.9
120 ~ 140	2.4	3.2	3.7	3.8	3.9	4.1	4.7	5.6	5.7	8.2
140 ~ 160	2.5	3.3	3.8	3.9	4.0	4.3	4.9	5.9	6.0	8.4

Constants of dn/dt		
D ₀	D ₁	D ₂
-4.29E-07	1.62E-08	-2.51E-11
E ₀	E ₁	λ_{TK}
5.81E-07	5.62E-12	3.40E-01