

H-ZLaF80	001255	$n_d = 2.00069$	$v_d = 25.46$	$n_F - n_C = 0.039308$
		$n_e = 2.00996$	$v_e = 25.26$	$n_{F'} - n_{C'} = 0.039985$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.93290
n_{1970}	1970.09	1.94015
n_{1530}	1529.58	1.94903
n_{1129}	1128.64	1.95916
n_{1064}	1064.00	1.96137
n_t	1013.98	1.96328
n_s	852.11	1.97139
$n_{A'}$	768.19	1.97747
n_r	706.52	1.98335
n_C	656.27	1.98944
$n_{C'}$	643.85	1.99119
n_{He-Ne}	632.80	1.99284
n_D	589.29	2.00035
n_d	587.56	2.00069
n_e	546.07	2.00996
n_F	486.13	2.02875
$n_{F'}$	479.99	2.03118
n_g	435.84	2.05296
n_h	404.66	2.07475
n_i	365.01	

Constants of Dispersion Formula	
A_0	3.80762148E+00
A_1	-1.53801657E-02
A_2	6.26758348E-02
A_3	1.57569502E-03
A_4	2.15980103E-04
A_5	6.30489693E-06

Density	
ρ (g/cm ³)	4.76

Solarization	
$\Delta\lambda$ (%)	-1.1

Relative Partial Dispersion	
$P_{d,C}$	0.2862
$P_{e,d}$	0.2358
$P_{g,F}$	0.6159
$P'_{d,c'}$	0.2376
$P'_{e,d}$	0.2318
$P'_{g,F'}$	0.5447

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0019
$\Delta P_{g,F}$	0.0146
$\Delta P_{C,t}$	0.0020
$\Delta P_{C,s}$	-0.0023

Thermal Properties	
T _g (°C)	700
T _s (°C)	740
T ₁₀ ^{14.5} (°C)	629
T ₁₀ ¹³ (°C)	675
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	89
λ (W/(m·K))	1.19

Mechanical Properties	
HK (10 ⁷ Pa)	630
F _A	78
E (GPa)	123.5
G (GPa)	46.3
μ	0.355
σ_b (MPa)	74.6
B (10 ⁻¹² /Pa)	1.22

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	64
-40/-30	67
-30/-20	69
-20/-10	70
-10/0	71
0/10	72
10/20	73
20/30	74
30/40	75
40/50	76
50/60	76
60/70	77
70/80	78
80/90	78
90/100	79
100/110	79
110/120	80
120/130	81
130/140	82
140/150	83
150/160	84

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.955	0.912
2200	0.983	0.966
2000	0.990	0.980
1800	0.997	0.994
1600	0.997	0.994
1400	0.997	0.994
1200	0.997	0.994
1060	0.997	0.994
1000	0.997	0.994
950	0.997	0.994
900	0.997	0.994
850	0.997	0.994
800	0.997	0.994
750	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.995	0.991
550	0.994	0.989
500	0.967	0.941
480	0.953	0.912
460	0.931	0.870
440	0.893	0.798
420	0.816	0.662
400	0.669	0.441
390	0.559	0.312
380	0.373	0.135
370	0.144	0.024
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(460)/375
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	440/373

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	1.6	2.4	2.9	3.1	3.2	3.3	4.0	5.6	5.9	7.4
-40 ~ -20	1.7	2.7	3.1	3.2	3.3	3.7	4.3	5.8	6.1	7.9
-20 ~ 0	1.8	2.7	3.2	3.3	3.4	3.9	4.5	6.1	6.3	8.4
0 ~ 20	1.9	2.8	3.4	3.5	3.6	4.1	4.8	6.4	6.7	8.8
20 ~ 40	2.0	2.9	3.5	3.6	3.7	4.2	5.0	6.8	7.0	9.2
40 ~ 60	2.1	3.1	3.6	3.7	3.8	4.5	5.2	7.0	7.2	9.6
60 ~ 80	2.2	3.3	3.9	3.9	4.1	4.7	5.6	7.4	7.7	10.1
80 ~ 100	2.4	3.6	4.3	4.3	4.4	4.9	5.9	7.8	8.1	10.4
100 ~ 120	2.6	3.7	4.5	4.6	4.7	5.3	6.4	8.2	8.5	10.6
120 ~ 140	2.8	4.0	4.7	4.8	4.9	5.5	6.8	8.7	9.0	10.8
140 ~ 160	2.9	4.1	4.9	5.0	5.0	5.7	7.0	9.1	9.3	11.2

Constants of dn/dt		
D ₀	D ₁	D ₂
-7.65E-07	1.27E-08	-1.65E-11
E ₀	E ₁	λ_{TK}
1.04E-06	1.04E-09	2.85E-01