

H-ZLaF95	051269	$n_d = 2.05090$	$v_d = 26.94$	$n_F - n_C = 0.039005$
		$n_e = 2.06011$	$v_e = 26.74$	$n_{F'} - n_{C'} = 0.039645$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.98329
n_{1970}	1970.09	1.99055
n_{1530}	1529.58	1.99938
n_{1129}	1128.64	2.00940
n_{1064}	1064.00	2.01158
n_t	1013.98	2.01348
n_s	852.11	2.02155
$n_{A'}$	768.19	2.02764
n_r	706.52	2.03354
n_C	656.27	2.03965
$n_{C'}$	643.85	2.04140
n_{He-Ne}	632.80	2.04306
n_D	589.29	2.05057
n_d	587.56	2.05090
n_e	546.07	2.06011
n_F	486.13	2.07865
$n_{F'}$	479.99	2.08104
n_g	435.84	2.10221
n_h	404.66	2.12327
n_i	365.01	2.16304

Constants of Dispersion Formula	
A_0	4.00832073E+00
A_1	-1.59378407E-02
A_2	6.04102723E-02
A_3	3.81295608E-03
A_4	-2.46023955E-04
A_5	3.41387429E-05

Density	
ρ (g/cm ³)	5.27

Solarization	
$\Delta\lambda$ (%)	-1.5

Relative Partial Dispersion	
$P_{d,C}$	0.2884
$P_{e,d}$	0.2361
$P_{g,F}$	0.6040
$P'_{d,c'}$	0.2396
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5340

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	0.0052
$\Delta P_{C,t}$	0.0003
$\Delta P_{C,s}$	-0.0010

Thermal Properties	
T _g (°C)	749
T _s (°C)	784
T ₁₀ ^{14.5} (°C)	726
T ₁₀ ¹³ (°C)	743
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	74
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	90
λ (W/(m·K))	1.02

Mechanical Properties	
HK (10 ⁷ Pa)	699
F _A	63
E (GPa)	131.4
G (GPa)	50.2
μ	0.308
σ_b (MPa)	86.1
B (10 ⁻¹² /Pa)	0.62

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	65
-40/-30	68
-30/-20	71
-20/-10	69
-10/0	71
0/10	74
10/20	73
20/30	76
30/40	78
40/50	75
50/60	80
60/70	82
70/80	78
80/90	82
90/100	81
100/110	81
110/120	85
120/130	83
130/140	86
140/150	86
150/160	88

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.953	0.907
2200	0.985	0.970
2000	0.994	0.988
1800	0.998	0.996
1600	0.998	0.996
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.996	0.994
550	0.992	0.986
500	0.976	0.953
480	0.963	0.928
460	0.944	0.892
440	0.914	0.835
420	0.854	0.729
400	0.727	0.529
390	0.618	0.382
380	0.459	0.211
370	0.245	0.062
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(470)/370
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	432/369

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	1.4	2.1	2.6	2.6	2.7	2.9	3.6	4.9	5.1	6.2
-40 ~ -20	1.6	2.2	2.7	2.7	2.8	3.2	3.8	5.3	5.4	6.4
-20 ~ 0	1.7	2.3	2.8	2.9	3.0	3.4	4.0	5.6	5.7	6.8
0 ~ 20	1.9	2.5	2.9	3.0	3.1	3.6	4.1	6.0	6.0	7.2
20 ~ 40	2.0	2.6	3.0	3.1	3.3	3.7	4.4	6.3	6.4	7.5
40 ~ 60	2.3	2.7	3.2	3.3	3.4	3.9	4.7	6.7	6.7	7.7
60 ~ 80	2.5	3.1	3.5	3.5	3.6	4.2	5.1	7.0	7.1	8.0
80 ~ 100	2.5	3.2	3.7	3.7	3.7	4.4	5.3	7.4	7.4	8.4
100 ~ 120	2.6	3.3	3.9	3.9	3.9	4.7	5.7	7.7	7.7	8.7
120 ~ 140	2.8	3.5	4.1	4.1	4.2	5.1	6.1	8.0	8.1	9.1
140 ~ 160	3.0	3.7	4.3	4.4	4.5	5.3	6.4	8.4	8.5	9.7

Constants of dn/dt		
D ₀	D ₁	D ₂
-1.09E-06	1.24E-08	-1.70E-11
E ₀	E ₁	λ_{TK}
9.96E-07	1.03E-09	2.51E-01