

H-ZLaF79 921240	$n_d = 1.92119$	$v_d = 23.96$	$n_F - n_C = 0.038453$
	$n_e = 1.93024$	$v_e = 23.77$	$n_{F'} - n_{C'} = 0.039142$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.85550
n_{1970}	1970.09	1.86269
n_{1530}	1529.58	1.87136
n_{1129}	1128.64	1.88103
n_{1064}	1064.00	1.88312
n_t	1013.98	1.88494
n_s	852.11	1.89268
$n_{A'}$	768.19	1.89855
n_r	706.52	1.90425
n_C	656.27	1.91020
$n_{C'}$	643.85	1.91191
n_{He-Ne}	632.80	1.91351
n_D	589.29	1.92086
n_d	587.56	1.92119
n_e	546.07	1.93024
n_F	486.13	1.94865
$n_{F'}$	479.99	1.95105
n_g	435.84	1.97243
n_h	404.66	1.99406
n_i	365.01	2.03605

Constants of Dispersion Formula	
A_0	3.51411868E+00
A_1	-1.49702982E-02
A_2	5.16999690E-02
A_3	4.53482010E-03
A_4	-3.71738355E-04
A_5	4.63319189E-05

Density	
ρ (g/cm ³)	3.86

Solarization	
$\Delta\lambda$ (%)	-1.2

Relative Partial Dispersion	
$P_{d,C}$	0.2858
$P_{e,d}$	0.2354
$P_{g,F}$	0.6184
$P'_{d,c'}$	0.2371
$P'_{e,d}$	0.2312
$P'_{g,F'}$	0.5462

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0018
$\Delta P_{g,F}$	0.0146
$\Delta P_{C,t}$	0.0007
$\Delta P_{C,s}$	-0.0023

Thermal Properties	
T _g (°C)	661
T _s (°C)	701
T ₁₀ ^{14.5} (°C)	618
T ₁₀ ¹³ (°C)	638
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	74
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	91
λ (W/(m·K))	1.02

Mechanical Properties	
HK (10 ⁷ Pa)	626
F _A	96
E (GPa)	114.7
G (GPa)	44.6
μ	0.285
σ_b (MPa)	101.6
B (10 ⁻¹² /Pa)	2.25

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	68
-40/-30	71
-30/-20	72
-20/-10	73
-10/0	74
0/10	75
10/20	76
20/30	77
30/40	77
40/50	78
50/60	79
60/70	81
70/80	82
80/90	83
90/100	84
100/110	85
110/120	86
120/130	87
130/140	88
140/150	89
150/160	90

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.986	0.972
2200	0.989	0.978
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	0.996	0.992
600	0.994	0.988
550	0.989	0.979
500	0.977	0.953
480	0.968	0.937
460	0.956	0.914
440	0.933	0.871
420	0.887	0.788
400	0.792	0.627
390	0.691	0.478
380	0.503	0.253
370	0.214	0.046
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(435)/370
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	422/371

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	0.2	0.6	1.0	1.2	1.4	1.6	1.9	2.4	2.6	3.9
-40 ~ -20	0.5	0.9	1.4	1.5	1.6	1.8	2.3	2.7	2.9	4.3
-20 ~ 0	0.7	1.2	1.5	1.6	1.7	2.2	2.7	3.0	3.1	4.6
0 ~ 20	1.0	1.5	1.8	1.9	2.0	2.4	3.0	3.2	3.3	4.8
20 ~ 40	1.2	1.8	2.1	2.2	2.3	2.6	3.3	3.5	3.6	5.3
40 ~ 60	1.3	2.0	2.2	2.3	2.5	2.7	3.5	3.8	3.8	5.7
60 ~ 80	1.4	2.2	2.5	2.6	2.8	3.1	3.7	3.9	4.0	5.9
80 ~ 100	1.5	2.4	2.6	2.8	3.0	3.2	3.8	4.3	4.4	6.1
100 ~ 120	1.6	2.5	2.9	3.1	3.2	3.4	4.2	4.6	4.7	6.3
120 ~ 140	1.8	2.7	3.1	3.2	3.3	3.8	4.4	4.8	4.9	6.7
140 ~ 160	2.1	3.1	3.5	3.6	3.7	4.1	4.7	5.1	5.2	7.1

Constants of dn/dt		
D ₀	D ₁	D ₂
-1.48E-06	1.72E-08	-2.62E-11
E ₀	E ₁	λ_{TK}
5.91E-07	3.18E-10	2.91E-01