

H-ZLaF76	850301	$n_d = 1.85013$	$v_d = 30.06$	$n_F - n_C = 0.028285$
		$n_e = 1.85681$	$v_e = 29.84$	$n_{F'} - n_{C'} = 0.028715$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.79436
n_{1970}	1970.09	1.80166
n_{1530}	1529.58	1.81015
n_{1129}	1128.64	1.81887
n_{1064}	1064.00	1.82064
n_t	1013.98	1.82215
n_s	852.11	1.82843
$n_{A'}$	768.19	1.83302
n_r	706.52	1.83741
n_C	656.27	1.84191
$n_{C'}$	643.85	1.84320
n_{He-Ne}	632.80	1.84441
n_D	589.29	1.84989
n_d	587.56	1.85013
n_e	546.07	1.85681
n_F	486.13	1.87020
$n_{F'}$	479.99	1.87191
n_g	435.84	1.88711
n_h	404.66	1.90212
n_i	365.01	1.93022

Constants of Dispersion Formula	
A_0	3.29452328E+00
A_1	-1.52382302E-02
A_2	4.07084470E-02
A_3	2.00555089E-03
A_4	-8.95622178E-05
A_5	1.65722537E-05

Density		Solarization	
ρ (g/cm ³)	3.97	$\Delta\lambda$ (%)	-0.8

Relative Partial Dispersion	
$P_{d,C}$	0.2906
$P_{e,d}$	0.2362
$P_{g,F}$	0.5978
$P'_{d,c'}$	0.2413
$P'_{e,d}$	0.2326
$P'_{g,F'}$	0.5293

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	0.0042
$\Delta P_{C,t}$	0.0128
$\Delta P_{C,s}$	0.0040

Thermal Properties	
T _g (°C)	580
T _s (°C)	622
T ₁₀ ^{14.5} (°C)	519
T ₁₀ ¹³ (°C)	556
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	66
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	82
λ (W/(m·K))	1.13

Mechanical Properties	
HK (10 ⁷ Pa)	600
F _A	138
E (GPa)	114.4
G (GPa)	44.3
μ	0.290
σ_b (MPa)	69.8
B (10 ⁻¹² /Pa)	2.34

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	58
-40/-30	61
-30/-20	63
-20/-10	64
-10/0	65
0/10	65
10/20	66
20/30	67
30/40	68
40/50	69
50/60	70
60/70	71
70/80	71
80/90	72
90/100	73
100/110	74
110/120	75
120/130	76
130/140	77
140/150	78
150/160	79

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.893	0.798
2200	0.954	0.910
2000	0.994	0.988
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	0.998	0.997
650	0.998	0.996
600	0.998	0.996
550	0.996	0.992
500	0.991	0.983
480	0.988	0.976
460	0.983	0.967
440	0.976	0.952
420	0.962	0.925
400	0.931	0.867
390	0.898	0.806
380	0.831	0.691
370	0.669	0.447
360	0.363	0.132
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(405)/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	389/358

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	4.3	4.8	5.2	5.3	5.4	5.6	6.1	7.0	7.1	8.3
-40 ~ -20	4.2	4.9	5.3	5.4	5.5	5.7	6.2	7.2	7.3	8.6
-20 ~ 0	4.3	4.9	5.3	5.4	5.5	5.9	6.3	7.4	7.5	8.9
0 ~ 20	4.3	4.9	5.3	5.4	5.5	5.9	6.4	7.5	7.6	9.1
20 ~ 40	4.4	5.0	5.4	5.5	5.6	6.0	6.5	7.7	7.8	9.3
40 ~ 60	4.5	5.1	5.5	5.6	5.7	6.1	6.7	8.0	8.1	9.6
60 ~ 80	4.5	5.2	5.6	5.7	5.8	6.4	7.0	8.3	8.4	10.0
80 ~ 100	4.7	5.3	5.7	5.8	5.9	6.6	7.2	8.5	8.6	10.3
100 ~ 120	4.7	5.4	5.7	5.8	5.9	6.9	7.5	8.8	8.9	10.6
120 ~ 140	4.8	5.5	5.9	6.0	6.1	7.1	7.7	9.0	9.1	10.8
140 ~ 160	4.9	5.6	6.0	6.1	6.2	7.3	7.9	9.2	9.3	11.1

Constants of dn/dt		
D ₀	D ₁	D ₂
3.41E-06	1.03E-08	-1.74E-11
E ₀	E ₁	λ_{TK}
8.24E-07	1.10E-09	2.84E-01