

H-ZLaF70 904313	$n_d = 1.90366$	$v_d = 31.32$	$n_F - n_C = 0.028857$
	$n_e = 1.91048$	$v_e = 31.08$	$n_{F'} - n_{C'} = 0.029295$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.84663
n_{1970}	1970.09	1.85408
n_{1530}	1529.58	1.86274
n_{1129}	1128.64	1.87166
n_{1064}	1064.00	1.87348
n_t	1013.98	1.87504
n_s	852.11	1.88144
$n_{A'}$	768.19	1.88615
n_r	706.52	1.89065
n_C	656.27	1.89526
$n_{C'}$	643.85	1.89657
n_{He-Ne}	632.80	1.89781
n_D	589.29	1.90341
n_d	587.56	1.90366
n_e	546.07	1.91048
n_F	486.13	1.92412
$n_{F'}$	479.99	1.92587
n_g	435.84	1.94128
n_h	404.66	1.95645
n_i	365.01	1.98472

Constants of Dispersion Formula	
A_0	3.48854243E+00
A_1	-1.59982726E-02
A_2	4.28443509E-02
A_3	2.18903241E-03
A_4	-1.15672643E-04
A_5	1.78697063E-05

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.54	-0.8

Relative Partial Dispersion	
$P_{d,C}$	0.2911
$P_{e,d}$	0.2363
$P_{g,F}$	0.5947
$P'_{d,c'}$	0.2420
$P'_{e,d}$	0.2328
$P'_{g,F'}$	0.5260

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	0.0031
$\Delta P_{C,t}$	0.0088
$\Delta P_{C,s}$	0.0033

Thermal Properties	
T_g (°C)	679
T_s (°C)	707
$T_{10}^{14.5}$ (°C)	595
T_{10}^{13} (°C)	643
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	66
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	82
λ (W/(m·K))	1.04

Mechanical Properties	
HK (10 ⁷ Pa)	640
F_A	80
E (GPa)	117.6
G (GPa)	45.6
μ	0.288
σ_b (MPa)	63.1
B (10 ⁻¹² /Pa)	2.01

Chemical Properties (grade)	
RC (S)	1
RA (S)	2
D_W	1
D_A	2
R_{OH} (S)	1
RP (S)	1

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	59
-40/-30	61
-30/-20	62
-20/-10	64
-10/0	65
0/10	66
10/20	66
20/30	67
30/40	68
40/50	68
50/60	69
60/70	70
70/80	70
80/90	71
90/100	71
100/110	73
110/120	74
120/130	75
130/140	76
140/150	77
150/160	77

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.904	0.817
2200	0.979	0.958
2000	0.998	0.996
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	0.998	0.996
550	0.996	0.994
500	0.990	0.984
480	0.984	0.977
460	0.977	0.969
440	0.968	0.954
420	0.950	0.927
400	0.914	0.859
390	0.874	0.784
380	0.790	0.635
370	0.591	0.348
360	0.229	0.053
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(405)/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	392/360

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	2.4	2.8	3.3	3.4	3.4	3.6	4.0	5.1	5.1	6.4
-40 ~ -20	2.4	2.9	3.4	3.4	3.5	3.8	4.3	5.2	5.3	6.5
-20 ~ 0	2.4	3.1	3.5	3.5	3.6	4.0	4.5	5.4	5.5	6.8
0 ~ 20	2.5	3.3	3.6	3.6	3.7	4.1	4.6	5.6	5.7	7.1
20 ~ 40	2.6	3.4	3.7	3.7	3.8	4.2	4.7	5.9	6.0	7.5
40 ~ 60	2.7	3.4	3.8	3.9	3.9	4.3	4.9	6.2	6.2	7.7
60 ~ 80	2.7	3.5	4.0	4.0	4.1	4.6	5.1	6.5	6.5	8.0
80 ~ 100	2.9	3.5	4.1	4.1	4.2	4.8	5.2	6.8	6.8	8.2
100 ~ 120	3.1	3.7	4.2	4.2	4.4	4.9	5.2	7.0	7.0	8.3
120 ~ 140	3.3	3.9	4.3	4.4	4.6	5.1	5.4	7.1	7.2	8.4
140 ~ 160	3.5	4.0	4.4	4.4	4.6	5.3	5.6	7.2	7.3	8.6

Constants of dn/dt		
D_0	D_1	D_2
6.13E-07	1.29E-08	-2.38E-11
E_0	E_1	λ_{TK}
7.62E-07	6.31E-10	2.84E-01