

H-ZLaF72	911353	$n_d = 1.91082$	$v_d = 35.25$	$n_F - n_C = 0.025839$
		$n_e = 1.91695$	$v_e = 35.01$	$n_{F'} - n_{C'} = 0.026194$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.85959
n_{1970}	1970.09	1.86612
n_{1530}	1529.58	1.87377
n_{1129}	1128.64	1.88177
n_{1064}	1064.00	1.88343
n_t	1013.98	1.88484
n_s	852.11	1.89068
$n_{A'}$	768.19	1.89497
n_r	706.52	1.89905
n_C	656.27	1.90323
$n_{C'}$	643.85	1.90443
n_{He-Ne}	632.80	1.90554
n_D	589.29	1.91060
n_d	587.56	1.91082
n_e	546.07	1.91695
n_F	486.13	1.92907
$n_{F'}$	479.99	1.93062
n_g	435.84	1.94415
n_h	404.66	1.95720
n_i	365.01	1.98078

Constants of Dispersion Formula	
A_0	3.52587871E+00
A_1	-1.39436897E-02
A_2	4.09037520E-02
A_3	1.38553859E-03
A_4	-1.74895373E-05
A_5	6.86910964E-06

Density	
ρ (g/cm ³)	4.88

Solarization	
$\Delta\lambda$ (%)	-0.9

Relative Partial Dispersion	
$P_{d,C}$	0.2937
$P_{e,d}$	0.2372
$P_{g,F}$	0.5836
$P'_{d,c'}$	0.2439
$P'_{e,d}$	0.2340
$P'_{g,F'}$	0.5165

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0017
$\Delta P_{g,F}$	-0.0014
$\Delta P_{C,t}$	0.0008
$\Delta P_{C,s}$	0.0007

Thermal Properties	
Tg (°C)	712
Ts (°C)	752
T ₁₀ ^{14.5} (°C)	655
T ₁₀ ¹³ (°C)	680
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	67
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	83
λ (W/(m·K))	1.14

Mechanical Properties	
HK (10 ⁷ Pa)	663
F _A	74
E (GPa)	127.8
G (GPa)	48.0
μ	0.333
σ_b (MPa)	76.5
B (10 ⁻¹² /Pa)	1.41

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.931	0.867
2200	0.987	0.974
2000	0.997	0.994
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	0.997	0.994
550	0.992	0.987
500	0.983	0.969
480	0.980	0.960
460	0.974	0.948
440	0.966	0.931
420	0.955	0.904
400	0.921	0.837
390	0.886	0.773
380	0.828	0.673
370	0.721	0.510
360	0.517	0.261
350	0.205	0.041
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(400)/350
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	393/350

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	4.5	4.9	5.3	5.3	5.4	5.7	6.3	7.3	7.4	8.4
-40 ~ -20	4.5	4.9	5.4	5.5	5.6	5.9	6.5	7.5	7.5	8.5
-20 ~ 0	4.6	4.9	5.6	5.7	5.8	6.1	6.6	7.6	7.7	8.8
0 ~ 20	4.6	5.1	5.7	5.8	6.1	6.1	6.6	7.7	7.8	8.9
20 ~ 40	4.7	5.3	5.9	6.0	6.2	6.3	6.7	7.8	7.9	9.1
40 ~ 60	4.7	5.3	6.1	6.1	6.2	6.5	7.0	7.9	8.0	9.3
60 ~ 80	4.7	5.4	6.1	6.1	6.2	6.6	7.1	8.1	8.3	9.5
80 ~ 100	4.7	5.4	6.1	6.1	6.2	6.7	7.2	8.2	8.4	9.6
100 ~ 120	4.8	5.5	6.1	6.1	6.2	6.6	7.2	8.3	8.4	9.7
120 ~ 140	4.8	5.6	6.2	6.2	6.2	6.6	7.3	8.4	8.4	9.7
140 ~ 160	4.8	5.7	6.2	6.2	6.2	6.7	7.4	8.4	8.4	9.9

Constants of dn/dt		
D ₀	D ₁	D ₂
3.50E-06	1.24E-08	-3.24E-11
E ₀	E ₁	λ_{TK}
8.61E-07	4.14E-10	2.43E-01