

H-ZLaF72A 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	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	1.88174
n_{1064}	1064.00	1.88340
n_t	1013.98	1.88483
n_s	852.11	1.89070
$n_{A'}$	768.19	1.89498
n_r	706.52	1.89906
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	1.95722
n_i	365.01	1.98087

Constants of Dispersion Formula	
A_0	3.52696534E+00
A_1	-1.46159641E-02
A_2	4.03353950E-02
A_3	1.52005930E-03
A_4	-3.40993875E-05
A_5	7.83574753E-06

Density	
ρ (g/cm ³)	4.82

Solarization	
$\Delta\lambda$ (%)	-1.3

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
$\Delta P_{C,t}$	0.0012
$\Delta P_{C,s}$	-0.0001

Thermal Properties	
Tg (°C)	714
Ts (°C)	756
T ₁₀ ^{14.5} (°C)	657
T ₁₀ ¹³ (°C)	682
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	68
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	83
λ (W/(m·K))	0.96

Mechanical Properties	
HK (10 ⁷ Pa)	676
F _A	67
E (GPa)	125.6
G (GPa)	48.0
μ	0.304
σ_b (MPa)	124.5
B (10 ⁻¹² /Pa)	1.02

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	60
-40/-30	62
-30/-20	64
-20/-10	65
-10/0	67
0/10	68
10/20	68
20/30	69
30/40	70
40/50	71
50/60	72
60/70	73
70/80	73
80/90	74
90/100	75
100/110	75
110/120	76
120/130	77
130/140	78
140/150	79
150/160	79

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.709	0.502
2200	0.908	0.824
2000	0.959	0.919
1800	0.988	0.977
1600	0.995	0.990
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	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.998	0.996
500	0.993	0.986
480	0.989	0.979
460	0.984	0.968
440	0.976	0.952
420	0.960	0.922
400	0.925	0.856
390	0.890	0.792
380	0.827	0.684
370	0.711	0.506
360	0.495	0.245
350	0.195	0.038
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(400)/355
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	392/351

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	2.7	3.1	3.6	3.7	3.8	4.0	4.4	4.8	5.1	6.2
-40 ~ -20	2.8	3.2	3.8	3.9	4.0	4.2	4.6	5.0	5.2	6.4
-20 ~ 0	2.8	3.4	3.8	4.0	4.2	4.4	4.8	5.2	5.3	6.6
0 ~ 20	2.8	3.5	3.8	4.0	4.2	4.6	5.1	5.3	5.5	6.9
20 ~ 40	2.9	3.7	3.9	4.1	4.3	4.7	5.2	5.4	5.6	7.2
40 ~ 60	3.0	3.9	4.1	4.3	4.5	4.9	5.4	5.7	5.9	7.4
60 ~ 80	3.1	4.1	4.2	4.4	4.6	5.1	5.5	5.9	6.1	7.7
80 ~ 100	3.1	6.0	4.4	4.6	4.8	5.3	5.6	5.9	6.3	7.8
100 ~ 120	3.2	4.0	4.6	4.9	5.1	5.4	5.6	6.1	6.4	8.1
120 ~ 140	3.3	4.1	4.7	5.1	5.4	5.6	5.8	6.3	6.5	8.3
140 ~ 160	3.4	4.3	4.8	5.2	5.5	5.8	5.9	6.5	6.6	8.5

Constants of dn/dt		
D ₀	D ₁	D ₂
1.20E-06	1.30E-08	-2.28E-11
E ₀	E ₁	λ_{TK}
7.80E-07	5.81E-10	2.31E-01