

H-ZLaF52	806410	$n_d = 1.80610$	$v_d = 40.95$	$n_F - n_C = 0.019686$
		$n_e = 1.81077$	$v_e = 40.69$	$n_{F'} - n_{C'} = 0.019924$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.75948
n_{1970}	1970.09	1.76685
n_{1530}	1529.58	1.77506
n_{1129}	1128.64	1.78274
n_{1064}	1064.00	1.78421
n_t	1013.98	1.78543
n_s	852.11	1.79030
$n_{A'}$	768.19	1.79376
n_f	706.52	1.79699
n_C	656.27	1.80025
$n_{C'}$	643.85	1.80117
n_{He-Ne}	632.80	1.80204
n_D	589.29	1.80592
n_d	587.56	1.80610
n_e	546.07	1.81077
n_F	486.13	1.81994
$n_{F'}$	479.99	1.82110
n_g	435.84	1.83112
n_h	404.66	1.84069
n_i	365.01	1.85767

Relative Partial Dispersion	
$P_{d,C}$	0.2972
$P_{e,d}$	0.2372
$P_{g,F}$	0.5679
$P'_{d,c'}$	0.2474
$P'_{e,d}$	0.2344
$P'_{g,F'}$	0.5029

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _W	1
D _A	3
R _{OH} (S)	1
RP (S)	2
CR	1

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.800	0.640
2200	0.930	0.865
2000	0.992	0.984
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	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.999	0.998
480	0.997	0.995
460	0.995	0.992
440	0.992	0.985
420	0.986	0.976
400	0.981	0.953
390	0.975	0.928
380	0.953	0.885
370	0.910	0.804
360	0.817	0.644
350	0.616	0.364
340	0.270	0.071
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0018
$\Delta P_{g,F}$	-0.0077
$\Delta P_{C,t}$	0.0143
$\Delta P_{C,s}$	0.0068

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	47
-40/-30	50
-30/-20	51
-20/-10	52
-10/0	53
0/10	54
10/20	54
20/30	55
30/40	56
40/50	56
50/60	56
60/70	57
70/80	57
80/90	58
90/100	58
100/110	59
110/120	60
120/130	60
130/140	61
140/150	62
150/160	62

Thermal Properties	
T _g ($^{\circ}C$)	637
T _s ($^{\circ}C$)	663
T ₁₀ ^{14.5} ($^{\circ}C$)	590
T ₁₀ ¹³ ($^{\circ}C$)	613
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	54
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	64
λ (W/(m K))	0.90

Constants of Dispersion Formula	
A ₀	3.17490239E+00
A ₁	-1.56120621E-02
A ₂	2.84801080E-02
A ₃	1.38932793E-03
A ₄	-9.12625910E-05
A ₅	7.77598184E-06

Mechanical Properties	
HK (10^7 Pa)	651
F _A	76
E (GPa)	113.9
G (GPa)	43.7
μ	0.303
σ_b (MPa)	92
B (10^{-12} /Pa)	1.80

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.35	-0.5

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	5.1	5.5	5.7	5.8	5.9	6.0	6.3	7.1	7.3	7.8
-40 ~ -20	5.1	5.7	5.8	5.9	5.9	6.1	6.5	7.2	7.3	8.0
-20 ~ 0	5.1	5.8	5.9	6.0	6.0	6.2	6.5	7.3	7.4	8.1
0 ~ 20	5.2	5.9	5.9	6.0	6.1	6.3	6.6	7.3	7.4	8.1
20 ~ 40	5.3	6.0	6.0	6.1	6.2	6.4	6.7	7.4	7.5	8.2
40 ~ 60	5.3	6.0	6.1	6.2	6.3	6.5	6.9	7.5	7.6	8.4
60 ~ 80	5.4	6.1	6.2	6.3	6.4	6.7	7.0	7.7	7.8	8.7
80 ~ 100	5.6	6.2	6.3	6.4	6.6	6.9	7.3	8.0	8.0	8.9
100 ~ 120	5.7	6.3	6.5	6.5	6.7	7.1	7.5	8.2	8.2	9.2
120 ~ 140	5.8	6.4	6.6	6.7	6.9	7.2	7.6	8.4	8.4	9.4
140 ~ 160	6.0	6.6	6.8	6.9	7.1	7.4	7.8	8.6	8.7	9.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	400/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	368/339

Constants of dn/dt		
D ₀	D ₁	D ₂
5.38E-06	1.23E-08	-1.43E-11
E ₀	E ₁	λ_{TK}
5.75E-07	4.96E-10	2.63E-01