

H-ZLaF80A	001255	$n_d = 2.00069$	$v_d = 25.46$	$n_F - n_C = 0.039308$
		$n_e = 2.00996$	$v_e = 25.26$	$n_{F'} - n_{C'} = 0.039985$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.93290
n_{1970}	1970.09	1.94015
n_{1530}	1529.58	1.94903
n_{1129}	1128.64	1.95916
n_{1064}	1064.00	1.96137
n_t	1013.98	1.96328
n_s	852.11	1.97139
$n_{A'}$	768.19	1.97747
n_f	706.52	1.98335
n_C	656.27	1.98944
$n_{C'}$	643.85	1.99119
n_{He-Ne}	632.80	1.99284
n_D	589.29	2.00035
n_d	587.56	2.00069
n_e	546.07	2.00996
n_F	486.13	2.02875
$n_{F'}$	479.99	2.03118
n_g	435.84	2.05296
n_h	404.66	2.07475
n_i	365.01	

Relative Partial Dispersion	
$P_{d,C}$	0.2862
$P_{e,d}$	0.2358
$P_{g,F}$	0.6159
$P'_{d,c'}$	0.2376
$P'_{e,d}$	0.2318
$P'_{g,F'}$	0.5447

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.933	0.870
2200	0.976	0.953
2000	0.989	0.979
1800	0.994	0.989
1600	0.998	0.995
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	0.997	0.995
600	0.996	0.993
550	0.992	0.985
500	0.981	0.962
480	0.972	0.946
460	0.960	0.922
440	0.939	0.881
420	0.895	0.801
400	0.797	0.636
390	0.696	0.484
380	0.513	0.264
370	0.239	0.057
360		
350		
340		
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0019
$\Delta P_{g,F}$	0.0146
$\Delta P_{C,t}$	0.0020
$\Delta P_{C,s}$	-0.0023

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	64
-40/-30	67
-30/-20	69
-20/-10	70
-10/0	71
0/10	72
10/20	73
20/30	74
30/40	75
40/50	76
50/60	76
60/70	77
70/80	78
80/90	78
90/100	79
100/110	79
110/120	80
120/130	81
130/140	82
140/150	83
150/160	84

Thermal Properties	
T _g ($^{\circ}C$)	700
T _s ($^{\circ}C$)	748
T ₁₀ ^{14.5} ($^{\circ}C$)	629
T ₁₀ ¹³ ($^{\circ}C$)	675
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	73
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	89
λ (W/(m K))	1.19

Constants of Dispersion Formula	
A ₀	3.80762148E+00
A ₁	-1.53801657E-02
A ₂	6.26758348E-02
A ₃	1.57569502E-03
A ₄	2.15980103E-04
A ₅	6.30489693E-06

Mechanical Properties	
HK (10^7 Pa)	630
F _A	78
E (GPa)	123.5
G (GPa)	46.3
μ	0.355
σ_b (MPa)	75
B (10^{-12} /Pa)	1.22

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.76	-1.0

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	1.6	2.4	2.9	3.1	3.2	3.3	4.0	5.6	5.9	7.4
-40 ~ -20	1.7	2.7	3.1	3.2	3.3	3.7	4.3	5.8	6.1	7.9
-20 ~ 0	1.8	2.7	3.2	3.3	3.4	3.9	4.5	6.1	6.3	8.4
0 ~ 20	1.9	2.8	3.4	3.5	3.6	4.1	4.8	6.4	6.7	8.8
20 ~ 40	2.0	2.9	3.5	3.6	3.7	4.2	5.0	6.8	7.0	9.2
40 ~ 60	2.1	3.1	3.6	3.7	3.8	4.5	5.2	7.0	7.2	9.6
60 ~ 80	2.2	3.3	3.9	3.9	4.1	4.7	5.6	7.4	7.7	10.1
80 ~ 100	2.4	3.6	4.3	4.3	4.4	4.9	5.9	7.8	8.1	10.4
100 ~ 120	2.6	3.7	4.5	4.6	4.7	5.3	6.4	8.2	8.5	10.6
120 ~ 140	2.8	4.0	4.7	4.8	4.9	5.5	6.8	8.7	9.0	10.8
140 ~ 160	2.9	4.1	4.9	5.0	5.0	5.7	7.0	9.1	9.3	11.2

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(440)/370
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	419/369

Constants of dn/dt		
D ₀	D ₁	D ₂
-7.65E-07	1.27E-08	-1.65E-11
E ₀	E ₁	λ_{TK}
1.04E-06	1.04E-09	2.85E-01