

H-ZLaF66GT 801350

$n_d = 1.80100$	$v_d = 34.97$	$n_F - n_C = 0.022907$
$n_e = 1.80642$	$v_e = 34.72$	$n_{F'} - n_{C'} = 0.023227$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.75399
n_{1970}	1970.09	1.76033
n_{1530}	1529.58	1.76765
n_{1129}	1128.64	1.77508
n_{1064}	1064.00	1.77659
n_t	1013.98	1.77787
n_s	852.11	1.78311
$n_{A'}$	768.19	1.78694
n_r	706.52	1.79055
n_C	656.27	1.79427
$n_{C'}$	643.85	1.79533
n_{He-Ne}	632.80	1.79632
n_D	589.29	1.80080
n_d	587.56	1.80100
n_e	546.07	1.80642
n_F	486.13	1.81718
$n_{F'}$	479.99	1.81856
n_g	435.84	1.83061
n_h	404.66	1.84231
n_i	365.01	1.86365

Relative Partial Dispersion	
$P_{d,C}$	0.2938
$P_{e,d}$	0.2366
$P_{g,F}$	0.5863
$P'_{d,c'}$	0.2441
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5188

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.951	0.907
2200	0.984	0.966
2000	0.995	0.990
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	0.998	0.996
500	0.996	0.992
480	0.994	0.987
460	0.990	0.980
440	0.986	0.971
420	0.979	0.959
400	0.967	0.929
390	0.948	0.889
380	0.913	0.828
370	0.840	0.698
360	0.655	0.419
350	0.280	0.074
340		
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	0.0008
$\Delta P_{C,t}$	0.0064
$\Delta P_{C,s}$	0.0029

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	64
-40/-30	67
-30/-20	69
-20/-10	71
-10/0	72
0/10	73
10/20	73
20/30	74
30/40	75
40/50	76
50/60	76
60/70	77
70/80	77
80/90	78
90/100	81
100/110	82
110/120	83
120/130	84
130/140	85
140/150	86
150/160	87

Thermal Properties	
T_g ($^{\circ}C$)	625
T_s ($^{\circ}C$)	677
$T_{10}^{14.5}$ ($^{\circ}C$)	548
T_{10}^{13} ($^{\circ}C$)	598
$\alpha_{50/80^{\circ}C}$ ($10^{-7}/K$)	72
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	88
λ (W/(m·K))	1.15

Constants of Dispersion Formula	
A_0	3.14027542E+00
A_1	-1.29512754E-02
A_2	3.35869785E-02
A_3	1.29233646E-03
A_4	-3.86870024E-05
A_5	8.22595195E-06

Mechanical Properties	
HK (10^7 Pa)	630
F_A	91
E (GPa)	120.7
G (GPa)	46.3
μ	0.302
σ_b (MPa)	
B (10^{-12} /Pa)	2.30

Density	
ρ (g/cm ³)	3.66

Solarization	
$\Delta\lambda$ (%)	-1.2

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	3.7	4.4	4.6	4.7	4.8	5.1	5.3	6.1	6.2	7.2
-40 ~ -20	3.8	4.4	4.6	4.7	4.7	5.1	5.5	6.2	6.3	7.3
-20 ~ 0	3.8	4.3	4.7	4.7	4.8	5.1	5.5	6.3	6.4	7.4
0 ~ 20	3.8	4.4	4.7	4.7	4.8	5.1	5.5	6.4	6.5	7.5
20 ~ 40	3.8	4.4	4.7	4.7	4.8	5.1	5.5	6.6	6.7	7.7
40 ~ 60	3.8	4.6	4.7	4.8	4.9	5.3	5.7	6.7	6.8	7.9
60 ~ 80	3.9	4.6	4.8	4.9	5.1	5.4	5.9	6.8	6.9	8.2
80 ~ 100	4.0	4.8	4.9	5.0	5.2	5.5	6.0	7.0	7.1	8.4
100 ~ 120	4.2	4.9	5.1	5.2	5.3	5.6	6.2	7.2	7.3	8.5
120 ~ 140	4.3	5.0	5.1	5.2	5.4	5.8	6.4	7.4	7.5	8.7
140 ~ 160	4.4	5.1	5.2	5.3	5.5	6.0	6.6	7.6	7.7	9.0

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	410/350
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	376/348

Constants of dn/dt		
D_0	D_1	D_2
3.01E-06	1.06E-08	-1.43E-11
E_0	E_1	λ_{TK}
6.73E-07	6.54E-10	2.86E-01