H-ZLaF2 803468

$n_d = 1.80279$	$\upsilon_d = 46.76$	$n_F - n_C = 0.017168$
$n_e = 1.80687$	$\upsilon_e = 46.52$	$n_{F'} - n_{C'} = 0.017345$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.75864
n_{1970}	1970.09	1.76610
n_{1530}	1529.58	1.77430
n_{1129}	1128.64	1.78174
n_{1064}	1064.00	1.78312
n_t	1013.98	1.78426
n_s	852.11	1.78874
$n_{A'}$	768.19	1.79184
n_r	706.52	1.79473
n_C	656.27	1.79763
$n_{C'}$	643.85	1.79845
n_{He-Ne}	632.80	1.79921
n_D	589.29	1.80264
n_d	587.56	1.80279
n_e	546.07	1.80687
n_F	486.13	1.81480
$n_{F'}$	479.99	1.81579
n_g	435.84	1.82438
n_h	404.66	1.83241
n_i	365.01	1.84644

Constants of Dispersion Formula	
A_0	3.17454812E+00
A_1	-1.59776958E-02
A_2	2.51277775E-02
A_3	1.18617161E-03
A_4	-8.90435226E-05
A_5	6.03380469E-06

Density	
ρ (g/cm³)	4.68

Solarization	
△λ (%)	-1.1

Relative Partial Dispersion	
$P_{d,C}$	0.3006
$P_{e,d}$	0.2377
$P_{g,F}$	0.5580
$P'_{d,c'}$	0.2502
$P'_{e,d}$	0.2352
$P'_{g,F'}$	0.4952

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0025
$\Delta P_{g,F}$	-0.0079
$\Delta P_{C,t}$	0.0121
$\Delta P_{C,s}$	0.0052

Thermal Properties	
Tg (℃)	690
Ts (℃)	708
$T_{10}^{14.5}$ (℃)	612
T_{10}^{13} (℃)	648
$\alpha_{-50/80℃}$ (10^{-7}/K)	59
$\alpha_{100/300℃}$ (10^{-7}/K)	74
λ (W/(m·K))	0.96

Mechanical Properties	
HK (10^7Pa)	702
F_A	68
E (GPa)	123.6
G (GPa)	47.8
μ	0.292
σ_b (MPa)	95.2
B (10^{-12}/Pa)	1.36

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D_W	1
D_A	3
R_{OH} (S)	1
RP (S)	1

Expansion Coefficient α ($\times 10^{-7}$/K)	
℃	α
-50/-40	53
-40/-30	55
-30/-20	57
-20/-10	58
-10/0	59
0/10	60
10/20	60
20/30	61
30/40	61
40/50	62
50/60	62
60/70	63
70/80	63
80/90	64
90/100	65
100/110	66
110/120	67
120/130	68
130/140	69
140/150	70
150/160	71

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.826	0.682
2200	0.959	0.920
2000	0.993	0.986
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	0.998	0.997
550	0.998	0.996
500	0.997	0.995
480	0.996	0.993
460	0.994	0.989
440	0.994	0.988
420	0.993	0.986
400	0.988	0.976
390	0.983	0.973
380	0.975	0.956
370	0.959	0.925
360	0.929	0.870
350	0.881	0.781
340	0.791	0.629
330	0.620	0.383
320	0.322	0.103
310	0.043	0.007
300		
290		
280		

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative ($\times 10^{-6}$ / ℃)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	3.6	4.0	4.3	4.3	4.4	4.5	4.7	5.3	5.4	5.9
-40 ~ -20	3.7	4.0	4.3	4.3	4.4	4.5	4.8	5.3	5.3	5.9
-20 ~ 0	3.6	4.0	4.3	4.3	4.4	4.6	4.8	5.3	5.3	6.0
0 ~ 20	3.8	4.0	4.3	4.4	4.4	4.6	4.8	5.4	5.4	5.9
20 ~ 40	3.9	4.0	4.4	4.5	4.5	4.7	5.0	5.6	5.6	6.2
40 ~ 60	4.0	4.1	4.5	4.6	4.7	4.9	5.1	5.8	5.9	6.4
60 ~ 80	4.0	4.2	4.6	4.7	4.8	5.1	5.4	6.0	6.1	6.6
80 ~ 100	4.1	4.3	4.7	4.8	4.9	5.3	5.6	6.2	6.3	6.9
100 ~ 120	4.2	4.4	4.9	5.0	5.0	5.5	5.7	6.5	6.6	6.9
120 ~ 140	4.3	4.5	5.1	5.1	5.1	5.6	5.9	6.8	6.9	7.2
140 ~ 160	4.4	4.6	5.2	5.2	5.3	5.8	6.1	7.0	7.1	7.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	350/316

Constants of dn/dt		
D_0	D_1	D_2
2.69E-06	1.08E-08	-1.22E-11
E_0	E_1	λ_{TK}
6.81E-07	9.88E-10	1.72E-01