H-ZLaF55F 835427

$n_d = 1.83481$	$\upsilon_d = 42.72$	$n_F - n_C = 0.019541$
$n_e = 1.83944$	$\upsilon_e = 42.49$	$n_{F'} - n_{C'} = 0.019757$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.79048
n_{1970}	1970.09	1.79707
n_{1530}	1529.58	1.80452
n_{1129}	1128.64	1.81175
n_{1064}	1064.00	1.81316
n_t	1013.98	1.81435
n_s	852.11	1.81912
$n_{A'}$	768.19	1.82253
n_r	706.52	1.82573
n_C	656.27	1.82897
$n_{C'}$	643.85	1.82989
n_{He-Ne}	632.80	1.83076
n_D	589.29	1.83463
n_d	587.56	1.83481
n_e	546.07	1.83944
n_F	486.13	1.84851
$n_{F'}$	479.99	1.84965
n_g	435.84	1.85955
n_h	404.66	1.86893
n_i	365.01	1.88543

Constants of Dispersion Formula	
A_0	3.27602602E+00
A_1	-1.40174355E-02
A_2	3.01024097E-02
A_3	1.06953465E-03
A_4	-5.08713944E-05
A_5	5.04484426E-06

Density	
ρ (g/cm^3)	4.66

Solarization	
△λ (%)	-0.4

Relative Partial Dispersion	
$P_{d,C}$	0.2989
$P_{e,d}$	0.2369
$P_{g,F}$	0.5650
$P'_{d,c'}$	0.2490
$P'_{e,d}$	0.2343
$P'_{g,F'}$	0.5011

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0025
$\Delta P_{g,F}$	-0.0077
$\Delta P_{C,t}$	0.0010
$\Delta P_{C,s}$	0.0011

Thermal Properties	
Tg (℃)	711
Ts (℃)	739
$T_{10}^{14.5}$ (℃)	640
T_{10}^{13} (℃)	687
$\alpha_{-50/80℃}$ (10^{-7}/K)	68
$\alpha_{100/300℃}$ (10^{-7}/K)	84
λ (W/(m·K))	0.88

Mechanical Properties	
HK (10^7Pa)	679
F_A	69
E (GPa)	121.8
G (GPa)	45.1
μ	0.349
σ_b (MPa)	68.8
B (10^{-12}/Pa)	1.23

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 (×10^{-7}/K)	
℃	α
-50/-40	60
-40/-30	62
-30/-20	64
-20/-10	65
-10/0	66
0/10	67
10/20	68
20/30	69
30/40	70
40/50	71
50/60	71
60/70	72
70/80	72
80/90	73
90/100	74
100/110	75
110/120	76
120/130	77
130/140	79
140/150	80
150/160	81

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.903	0.808
2200	0.979	0.954
2000	0.993	0.985
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	0.994
460	0.995	0.990
440	0.992	0.984
420	0.987	0.974
400	0.978	0.957
390	0.969	0.939
380	0.956	0.913
370	0.934	0.866
360	0.897	0.801
350	0.829	0.681
340	0.726	0.522
330	0.544	0.290
320	0.250	0.065
310		
300		
290		
280		

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (×10^{-6} / ℃)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	2.8	3.2	3.6	3.6	3.6	3.8	4.2	4.9	5.0	5.4
-40 ~ -20	2.8	3.3	3.6	3.6	3.7	3.8	4.2	4.9	5.0	5.5
-20 ~ 0	2.8	3.3	3.6	3.7	3.7	3.9	4.3	4.9	5.0	5.5
0 ~ 20	2.7	3.3	3.7	3.7	3.7	3.9	4.3	5.0	5.0	5.6
20 ~ 40	2.7	3.2	3.7	3.7	3.7	3.9	4.3	5.0	5.0	5.6
40 ~ 60	2.7	3.3	3.7	3.7	3.7	3.9	4.3	5.0	5.1	5.7
60 ~ 80	2.8	3.4	3.7	3.7	3.8	4.0	4.4	5.2	5.2	6.0
80 ~ 100	2.8	3.4	3.7	3.7	3.8	4.1	4.4	5.2	5.2	6.1
100 ~ 120	3.0	3.5	3.8	3.8	4.0	4.2	4.5	5.3	5.3	6.2
120 ~ 140	3.1	3.6	3.9	4.0	4.1	4.3	4.6	5.5	5.5	6.3
140 ~ 160	3.3	3.7	4.0	4.1	4.2	4.4	4.7	5.7	5.7	6.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	395/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	359/320

Constants of dn/dt		
D_0	D_1	D_2
1.12E-06	9.87E-09	-1.49E-11
E_0	E_1	λ_{TK}
6.99E-07	4.22E-10	2.11E-01