H-ZLaF56 806333

n_d = 1.80610	υ_d = 33.27	$n_F - n_C$ = 0.024229
n_e = 1.81184	υ_e = 33.03	$n_{F'} - n_{C'}$ = 0.024579

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.75788
n_{1970}	1970.09	1.76418
n_{1530}	1529.58	1.77151
n_{1129}	1128.64	1.77906
n_{1064}	1064.00	1.78060
n_t	1013.98	1.78192
n_s	852.11	1.78735
$n_{A'}$	768.19	1.79134
n_r	706.52	1.79512
n_C	656.27	1.79902
$n_{C'}$	643.85	1.80013
n_{He-Ne}	632.80	1.80117
n_D	589.29	1.80589
n_d	587.56	1.80610
n_e	546.07	1.81184
n_F	486.13	1.82325
$n_{F'}$	479.99	1.82471
n_g	435.84	1.83760
n_h	404.66	1.85020
n_i	365.01	1.87341

Relative Partial Dispersion	
$P_{d,C}$	0.2922
$P_{e,d}$	0.2369
$P_{g,F}$	0.5923
$P'_{d,c'}$	0.2429
$P'_{e,d}$	0.2335
$P'_{g,F'}$	0.5244

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0009
$\Delta P_{g,F}$	0.0039
$\Delta P_{C,t}$	0.0044
$\Delta P_{C,s}$	0.0014

Thermal Properties	
Tg (℃)	650
Ts (℃)	695
$T_{10}^{14.5}$ (℃)	582
T_{10}^{13} (℃)	614
$\alpha_{-50/80℃}$ (10^{-7}/K)	71
$\alpha_{100/300℃}$ (10^{-7}/K)	89
λ (W/(m·K))	1.27

Mechanical Properties	
HK (10^7Pa)	617
F_A	133
E (GPa)	119.0
G (GPa)	46.0
μ	0.295
σ_b (MPa)	82.3
B (10^{-12}/Pa)	1.83

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

Expansion Coefficient α ($\times 10^{-7}$/K)	
℃	α
-50/-40	63
-40/-30	66
-30/-20	68
-20/-10	69
-10/0	70
0/10	71
10/20	72
20/30	73
30/40	74
40/50	74
50/60	75
60/70	76
70/80	76
80/90	78
90/100	79
100/110	80
110/120	81
120/130	82
130/140	83
140/150	84
150/160	86

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.963	0.930
2200	0.986	0.977
2000	0.998	0.996
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	0.996	0.991
500	0.991	0.990
480	0.989	0.986
460	0.986	0.980
440	0.981	0.971
420	0.972	0.942
400	0.951	0.900
390	0.925	0.851
380	0.876	0.759
370	0.755	0.559
360	0.474	0.216
350		
340		
330		
320		
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	3.15298545E+00
A_1	-1.28281407E-02
A_2	3.50678569E-02
A_3	1.45594413E-03
A_4	-4.44157215E-05
A_5	1.00656359E-05

Density	
ρ (g/cm^3)	3.56

Solarization	
△λ (%)	-0.4

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	4.4	4.5	4.6	4.9	5.3	6.2	6.3	7.4
-40 ~ -20	3.7	4.0	4.4	4.5	4.6	4.9	5.3	6.3	6.3	7.4
-20 ~ 0	3.8	4.1	4.5	4.6	4.7	5.0	5.4	6.3	6.4	7.5
0 ~ 20	3.8	4.1	4.6	4.6	4.7	5.0	5.4	6.4	6.4	7.5
20 ~ 40	3.8	4.2	4.7	4.7	4.8	5.0	5.5	6.5	6.5	7.7
40 ~ 60	3.8	4.2	4.8	4.8	4.8	5.2	5.7	6.7	6.7	7.9
60 ~ 80	3.8	4.3	4.8	4.9	5.0	5.4	5.9	6.9	7.1	8.3
80 ~ 100	3.8	4.4	4.9	5.0	5.1	5.6	6.1	7.2	7.3	8.5
100 ~ 120	3.8	4.5	5.0	5.1	5.3	5.8	6.3	7.4	7.5	8.7
120 ~ 140	3.9	4.6	5.1	5.3	5.4	5.9	6.4	7.6	7.6	8.8
140 ~ 160	3.9	4.7	5.3	5.4	5.5	6.1	6.6	7.7	7.7	9.0

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	430/355
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	383/354

Constants of dn/dt		
D_0	D_1	D_2
2.40E-06	1.05E-08	-1.57E-11
E_0	E_1	λ_{TK}
8.61E-07	8.63E-10	2.53E-01