H-ZLaF82GT	001291	n_d = 2.00100	υ_d = 29.14	$n_F - n_C$ = 0.034352
		n_e = 2.00912	υ_e = 28.92	$n_F - n_{C'}$ = 0.034895

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.93864
n_{1970}	1970.09	1.94582
n_{1530}	1529.58	1.95440
n_{1129}	1128.64	1.96381
n_{1064}	1064.00	1.96583
n_t	1013.98	1.96756
n_s	852.11	1.97488
$n_{A'}$	768.19	1.98035
n_r	706.52	1.98561
n_C	656.27	1.99105
$n_{C'}$	643.85	1.99260
n_{He-Ne}	632.80	1.99406
n_D	589.29	2.00070
n_d	587.56	2.00100
n_e	546.07	2.00912
n_F	486.13	2.02540
$n_{F'}$	479.99	2.02749
n_g	435.84	2.04600
n_h	404.66	2.06424
n_i	365.01	2.09830

Relative Partial Dispersion	
$P_{d,C}$	0.2896
$P_{e,d}$	0.2364
$P_{g,F}$	0.5997
$P'_{d,C'}$	0.2407
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5304

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

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.916	0.840
2200	0.974	0.948
2000	0.988	0.975
1800	0.995	0.990
1600	0.999	0.997
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	0.998	0.996
500	0.993	0.987
480	0.989	0.979
460	0.984	0.969
440	0.977	0.954
420	0.959	0.919
400	0.922	0.850
390	0.872	0.761
380	0.769	0.591
370	0.547	0.299
360	0.226	0.051
350		
340		
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0002
$\triangle P_{g,F}$	0.0045
$\triangle P_{C,t}$	0.0025
$\triangle P_{C,s}$	0.0004

Expansion Coefficient α (×10^{-7}/K)	
℃	α
-50/-40	61
-40/-30	64
-30/-20	65
-20/-10	67
-10/0	68
0/10	70
10/20	71
20/30	72
30/40	74
40/50	75
50/60	75
60/70	76
70/80	76
80/90	77
90/100	78
100/110	79
110/120	80
120/130	82
130/140	83
140/150	84
150/160	85

Thermal Properties	
Tg (℃)	725
Ts (℃)	761
$T_{10}^{14.5}$ (℃)	682
T_{10}^{13} (℃)	718
$\alpha_{-50/80℃}$ (10^{-7}/K)	70
$\alpha_{100/300℃}$ (10^{-7}/K)	88
λ (W/(m K))	1.10

Mechanical Properties	
HK (10^7Pa)	720
F_A	61
E (GPa)	133.7
G (GPa)	50.0
μ	0.338
σ_b (MPa)	
B (10^{-12}/Pa)	0.74

Constants of Dispersion Formula	
A_0	3.83282270E+00
A_1	-1.56183327E-02
A_2	5.35172772E-02
A_3	2.75764007E-03
A_4	-1.28130130E-04
A_5	2.18199756E-05

Density	
ρ (g/cm^3)	5.02

Solarization	
△λ (%)	-1.5

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	2.2	2.9	3.4	3.4	3.5	3.8	4.5	5.8	5.9	7.3
-40 ~ -20	2.2	2.9	3.4	3.4	3.5	3.9	4.5	5.9	5.9	7.4
-20 ~ 0	2.3	3.0	3.5	3.5	3.6	4.0	4.6	6.1	6.1	7.7
0 ~ 20	2.2	3.0	3.6	3.7	3.7	4.2	4.8	6.3	6.4	8.1
20 ~ 40	2.3	3.0	3.7	3.7	3.8	4.3	4.9	6.6	6.6	8.3
40 ~ 60	2.3	3.1	3.8	3.8	3.9	4.5	5.0	6.8	6.8	8.6
60 ~ 80	2.4	3.2	4.0	4.1	4.2	4.7	5.4	7.0	7.1	9.0
80 ~ 100	2.5	3.3	4.3	4.3	4.4	4.9	5.7	7.2	7.3	9.3
100 ~ 120	2.6	3.5	4.5	4.5	4.6	5.1	5.9	7.4	7.5	9.5
120 ~ 140	2.6	3.6	4.6	4.6	4.7	5.2	6.0	7.6	7.7	9.7
140 ~ 160	2.7	3.7	4.7	4.8	4.8	5.3	6.1	7.7	7.8	9.9

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(409)/363
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	381/360

Constants of dn/dt		
D_0	D_1	D_2
-2.90E-07	1.09E-08	-1.93E-11
E_0	E_1	λ_{TK}
9.83E-07	8.75E-10	2.67E-01

NHG