

H-ZLaF57	800298	$n_d = 1.80000$	$v_d = 29.84$	$n_F - n_C = 0.026806$
		$n_e = 1.80633$	$v_e = 29.62$	$n_{F'} - n_{C'} = 0.027224$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.74747
n_{1970}	1970.09	1.75431
n_{1530}	1529.58	1.76226
n_{1129}	1128.64	1.77044
n_{1064}	1064.00	1.77212
n_t	1013.98	1.77354
n_s	852.11	1.77945
$n_{A'}$	768.19	1.78380
n_r	706.52	1.78795
n_C	656.27	1.79223
$n_{C'}$	643.85	1.79344
n_{He-Ne}	632.80	1.79459
n_D	589.29	1.79977
n_d	587.56	1.80000
n_e	546.07	1.80633
n_F	486.13	1.81903
$n_{F'}$	479.99	1.82067
n_g	435.84	1.83511
n_h	404.66	1.84939
n_i	365.01	1.87619

Constants of Dispersion Formula	
A_0	3.12168528E+00
A_1	-1.38673767E-02
A_2	3.73009678E-02
A_3	1.94247273E-03
A_4	-9.80256201E-05
A_5	1.64841569E-05

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.73	-0.7

Relative Partial Dispersion	
$P_{d,C}$	0.2899
$P_{e,d}$	0.2361
$P_{g,F}$	0.5999
$P'_{d,c'}$	0.2410
$P'_{e,d}$	0.2325
$P'_{g,F'}$	0.5304

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	0.0058
$\Delta P_{C,t}$	0.0125
$\Delta P_{C,s}$	0.0047

Thermal Properties	
T _g (°C)	623
T _s (°C)	658
T ₁₀ ^{14.5} (°C)	547
T ₁₀ ¹³ (°C)	592
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	89
λ (W/(m·K))	1.19

Mechanical Properties	
HK (10 ⁷ Pa)	543
F _A	167
E (GPa)	100.6
G (GPa)	39.0
μ	0.290
σ_b (MPa)	83.0
B (10 ⁻¹² /Pa)	2.52

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 (×10 ⁻⁷ /K)	
°C	α
-50/-40	65
-40/-30	68
-30/-20	70
-20/-10	71
-10/0	72
0/10	73
10/20	74
20/30	75
30/40	75
40/50	76
50/60	77
60/70	77
70/80	78
80/90	78
90/100	79
100/110	80
110/120	81
120/130	82
130/140	83
140/150	84
150/160	84

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.945	0.893
2200	0.983	0.966
2000	0.996	0.992
1800	0.996	0.992
1600	0.996	0.992
1400	0.996	0.992
1200	0.996	0.992
1060	0.996	0.992
1000	0.996	0.992
950	0.996	0.992
900	0.996	0.992
850	0.996	0.992
800	0.996	0.992
750	0.996	0.992
700	0.996	0.992
650	0.996	0.992
600	0.996	0.988
550	0.993	0.983
500	0.984	0.970
480	0.981	0.964
460	0.977	0.957
440	0.972	0.946
420	0.964	0.927
400	0.939	0.880
390	0.910	0.826
380	0.848	0.716
370	0.694	0.475
360	0.347	0.117
350	0.042	0.013
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	430/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	383/356

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 ⁻⁶ / °C)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	1.8	2.4	2.8	2.8	2.9	3.2	3.6	4.5	4.6	5.8
-40 ~ -20	1.9	2.5	2.8	2.9	2.9	3.3	3.7	4.6	4.7	6.0
-20 ~ 0	1.8	2.5	2.9	2.9	3.0	3.3	3.9	4.7	4.8	6.2
0 ~ 20	1.8	2.6	2.9	3.0	3.0	3.4	4.0	4.9	5.0	6.2
20 ~ 40	1.9	2.6	3.0	3.1	3.1	3.4	4.0	5.2	5.2	6.6
40 ~ 60	2.0	2.8	3.2	3.2	3.2	3.6	4.2	5.4	5.4	6.9
60 ~ 80	2.1	2.9	3.3	3.4	3.4	3.7	4.4	5.6	5.6	7.2
80 ~ 100	2.2	3.1	3.5	3.5	3.5	3.8	4.5	5.9	5.9	7.3
100 ~ 120	2.4	3.2	3.6	3.6	3.6	4.0	4.8	6.1	6.1	7.6
120 ~ 140	2.5	3.3	3.7	3.7	3.7	4.1	4.9	6.2	6.2	7.7
140 ~ 160	2.6	3.4	3.8	3.8	3.9	4.3	5.2	6.4	6.5	8.0

Constants of dn/dt		
D ₀	D ₁	D ₂
-1.68E-07	1.19E-08	-1.81E-11
E ₀	E ₁	λ_{TK}
8.12E-07	7.58E-10	2.86E-01