

D-ZLaF814 815370	$n_d = 1.81474$	$v_d = 37.03$	$n_F - n_C = 0.022004$
	$n_e = 1.81995$	$v_e = 36.78$	$n_{F'} - n_{C'} = 0.022294$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.76516
n_{1970}	1970.09	1.77267
n_{1530}	1529.58	1.78111
n_{1129}	1128.64	1.78919
n_{1064}	1064.00	1.79076
n_t	1013.98	1.79207
n_s	852.11	1.79734
$n_{A'}$	768.19	1.80110
n_r	706.52	1.80465
n_C	656.27	1.80825
$n_{C'}$	643.85	1.80927
n_{He-Ne}	632.80	1.81023
n_D	589.29	1.81455
n_d	587.56	1.81474
n_e	546.07	1.81995
n_F	486.13	1.83025
$n_{F'}$	479.99	1.83156
n_g	435.84	1.84293
n_h	404.66	1.85388
n_i	365.01	1.87363

Constants of Dispersion Formula	
A_0	3.19574140E+00
A_1	-1.58738035E-02
A_2	3.15329222E-02
A_3	1.57767624E-03
A_4	-9.05739467E-05
A_5	9.32711709E-06

Density	
ρ (g/cm ³)	4.20

Solarization	
$\Delta\lambda$ (%)	-2.1

Relative Partial Dispersion	
$P_{d,C}$	0.2949
$P_{e,d}$	0.2368
$P_{g,F}$	0.5763
$P'_{d,c'}$	0.2454
$P'_{e,d}$	0.2337
$P'_{g,F'}$	0.5100

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0017
$\Delta P_{g,F}$	-0.0058
$\Delta P_{C,t}$	0.0158
$\Delta P_{C,s}$	0.0065

Thermal Properties	
T _g (°C)	544
T _s (°C)	580
T ₁₀ ^{14.5} (°C)	502
T ₁₀ ¹³ (°C)	525
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	60
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	74
λ (W/(m·K))	0.93
β_d	183

Mechanical Properties	
HK (10 ⁷ Pa)	620
F _A	
E (GPa)	115.3
G (GPa)	44.7
μ	0.290
σ_b (MPa)	
B (10 ⁻¹² /Pa)	2.17

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D _W	1
D _A	4
R _{OH} (S)	1
RP (S)	2

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	52
-40/-30	55
-30/-20	56
-20/-10	58
-10/0	59
0/10	60
10/20	61
20/30	62
30/40	63
40/50	64
50/60	64
60/70	65
70/80	65
80/90	66
90/100	67
100/110	68
110/120	70
120/130	71
130/140	73
140/150	74
150/160	76

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.846	0.715
2200	0.962	0.925
2000	0.986	0.972
1800	0.995	0.990
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	0.998	0.997
600	0.997	0.995
550	0.993	0.986
500	0.989	0.979
480	0.985	0.970
460	0.979	0.957
440	0.968	0.938
420	0.946	0.895
400	0.925	0.856
390	0.892	0.796
380	0.834	0.695
370	0.719	0.516
360	0.498	0.248
350	0.193	0.037
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	430/345
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	380/342

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	4.8	5.4	5.9	5.9	6.0	6.1	6.6	7.2	7.3	8.0
-40 ~ -20	4.6	5.1	5.5	5.6	5.6	5.8	6.3	6.8	6.9	7.6
-20 ~ 0	4.4	4.9	5.2	5.2	5.3	5.5	6.0	6.5	6.6	7.4
0 ~ 20	4.1	4.7	4.9	5.0	5.1	5.2	5.7	6.4	6.4	7.2
20 ~ 40	4.0	4.6	4.9	5.0	5.1	5.3	5.8	6.4	6.4	7.3
40 ~ 60	4.0	4.6	5.0	5.0	5.1	5.3	5.8	6.4	6.5	7.4
60 ~ 80	4.0	4.6	5.0	5.0	5.1	5.4	5.9	6.5	6.6	7.5
80 ~ 100	4.0	4.7	5.2	5.2	5.3	5.5	6.1	6.6	6.6	7.7
100 ~ 120	4.0	4.7	5.2	5.2	5.3	5.6	6.2	6.7	6.7	7.8
120 ~ 140	4.1	4.8	5.3	5.3	5.4	5.6	6.2	6.7	6.8	7.9
140 ~ 160	4.2	4.9	5.3	5.4	5.5	5.8	6.3	6.9	6.9	8.1

Constants of dn/dt		
D ₀	D ₁	D ₂
3.28E-06	4.57E-09	8.29E-12
E ₀	E ₁	λ_{TK}
8.13E-07	5.49E-10	1.92E-01