

D-ZLaF52L	806407	$n_d = 1.80610$	$v_d = 40.73$	$n_F - n_C = 0.019791$
		$n_e = 1.81080$	$v_e = 40.48$	$n_{F'} - n_{C'} = 0.020031$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.76065
n_{1970}	1970.09	1.76756
n_{1530}	1529.58	1.77534
n_{1129}	1128.64	1.78278
n_{1064}	1064.00	1.78422
n_t	1013.98	1.78543
n_s	852.11	1.79027
$n_{A'}$	768.19	1.79371
n_f	706.52	1.79694
n_C	656.27	1.80022
$n_{C'}$	643.85	1.80114
n_{He-Ne}	632.80	1.80201
n_D	589.29	1.80592
n_d	587.56	1.80610
n_e	546.07	1.81080
n_F	486.13	1.82002
$n_{F'}$	479.99	1.82117
n_g	435.84	1.83126
n_h	404.66	1.84085
n_i	365.01	1.85784

Relative Partial Dispersion	
$P_{d,C}$	0.2971
$P_{e,d}$	0.2375
$P_{g,F}$	0.5679
$P'_{d,c'}$	0.2476
$P'_{e,d}$	0.2346
$P'_{g,F'}$	0.5037

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.848	0.719
2200	0.962	0.925
2000	0.995	0.990
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	0.998	0.995
480	0.996	0.992
460	0.994	0.988
440	0.992	0.983
420	0.988	0.976
400	0.982	0.963
390	0.975	0.949
380	0.963	0.928
370	0.942	0.888
360	0.902	0.818
350	0.822	0.683
340	0.658	0.433
330	0.342	0.118
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0018
$\Delta P_{g,F}$	-0.0080
$\Delta P_{C,t}$	0.0098
$\Delta P_{C,s}$	0.0046

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	52
-40/-30	55
-30/-20	56
-20/-10	57
-10/0	58
0/10	59
10/20	59
20/30	60
30/40	61
40/50	61
50/60	62
60/70	63
70/80	64
80/90	66
90/100	67
100/110	68
110/120	68
120/130	69
130/140	71
140/150	72
150/160	72

Thermal Properties	
T _g ($^{\circ}C$)	546
T _s ($^{\circ}C$)	580
T ₁₀ ^{14.5} ($^{\circ}C$)	519
T ₁₀ ¹³ ($^{\circ}C$)	538
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	59
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	75
λ (W/(m K))	0.87
β_d	140

Constants of Dispersion Formula	
A ₀	3.17316178E+00
A ₁	-1.45588429E-02
A ₂	2.92758988E-02
A ₃	1.20865059E-03
A ₄	-6.18358136E-05
A ₅	5.88185791E-06

Mechanical Properties	
HK (10^7 Pa)	645
F _A	106
E (GPa)	112.8
G (GPa)	42.0
μ	0.342
σ_b (MPa)	73
B ($10^{-12}/Pa$)	2.23

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.43	0.0

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	5.4	6.3	6.5	6.6	6.7	7.3	7.6	8.0	8.2	9.6
-40 ~ -20	5.6	6.3	6.6	6.7	6.9	7.4	7.8	8.3	8.4	9.8
-20 ~ 0	5.8	6.3	6.8	6.8	6.9	7.5	7.9	8.4	8.5	9.9
0 ~ 20	6.0	6.4	6.8	6.9	6.9	7.5	8.0	8.5	8.6	9.9
20 ~ 40	6.2	6.5	6.9	6.9	7.0	7.7	8.1	8.5	8.6	9.9
40 ~ 60	6.4	6.6	6.9	7.0	7.1	7.9	8.1	8.7	8.8	10.0
60 ~ 80	6.5	6.7	7.0	7.1	7.3	7.9	8.1	8.6	8.8	10.2
80 ~ 100	6.6	6.8	7.1	7.3	7.4	8.1	8.4	9.0	9.1	10.4
100 ~ 120	6.7	7.0	7.3	7.4	7.5	8.2	8.6	9.0	9.2	10.5
120 ~ 140	6.8	7.1	7.4	7.5	7.7	8.4	8.7	9.1	9.3	10.7
140 ~ 160	6.9	7.1	7.6	7.7	7.9	8.5	8.8	9.3	9.5	10.9

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	395/330
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	357/327

Constants of dn/dt		
D ₀	D ₁	D ₂
6.51E-06	1.42E-08	-2.06E-11
E ₀	E ₁	λ_{TK}
6.70E-07	3.07E-11	2.84E-01