D-FK61 497816

n_d = 1.49700	υ_d = 81.61	$n_F - n_C$ = 0.006090
n_e = 1.49845	υ_e = 81.20	$n_{F'} - n_{C'}$ = 0.006139

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.47950
n_{1970}	1970.09	1.48263
n_{1530}	1529.58	1.48606
n_{1129}	1128.64	1.48910
n_{1064}	1064.00	1.48965
n_t	1013.98	1.49010
n_s	852.11	1.49183
$n_{A'}$	768.19	1.49301
n_r	706.52	1.49407
n_C	656.27	1.49514
$n_{C'}$	643.85	1.49543
n_{He-Ne}	632.80	1.49571
n_D	589.29	1.49694
n_d	587.56	1.49700
n_e	546.07	1.49845
n_F	486.13	1.50123
$n_{F'}$	479.99	1.50157
n_g	435.84	1.50451
n_h	404.66	1.50721
n_i	365.01	1.51173

Relative Partial Dispersion	
$P_{d,C}$	0.3054
$P_{e,d}$	0.2381
$P_{g,F}$	0.5386
$P'_{d,c'}$	0.2557
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4789

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0113
$\Delta P_{g,F}$	0.0305
$\Delta P_{C,t}$	-0.1080
$\Delta P_{C,s}$	-0.0528

Thermal Properties	
Tg (℃)	464
Ts (℃)	489
$T_{10}^{14.5}$ (℃)	421
T_{10}^{13} (℃)	442
$\alpha_{-50/80℃}$ (10^{-7}/K)	124
$\alpha_{100/300℃}$ (10^{-7}/K)	152
λ (W/(m·K))	0.74
β_d	58

Mechanical Properties	
HK (10^7Pa)	350
F_A	385
E (GPa)	71.6
G (GPa)	27.4
μ	0.307
σ_b (MPa)	32.6
B (10^{-12}/Pa)	0.69

Chemical Properties (grade)	
RC (S)	1
RA (S)	2
D_W	1
D_A	3
R_{OH} (S)	2
RP (S)	2

Expansion Coefficient α (×10^{-7}/K)	
℃	α
-50/-40	115
-40/-30	118
-30/-20	121
-20/-10	123
-10/0	125
0/10	127
10/20	128
20/30	130
30/40	133
40/50	136
50/60	138
60/70	140
70/80	142
80/90	144
90/100	145
100/110	146
110/120	147
120/130	148
130/140	149
140/150	150
150/160	151

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.999	0.998
2200	0.999	0.998
2000	0.999	0.998
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	0.999	0.998
480	0.999	0.998
460	0.999	0.998
440	0.999	0.998
420	0.999	0.998
400	0.999	0.998
390	0.999	0.998
380	0.999	0.998
370	0.995	0.993
360	0.984	0.975
350	0.970	0.948
340	0.942	0.893
330	0.886	0.788
320	0.788	0.621
310	0.643	0.410
300	0.466	0.212
290	0.298	0.086
280	0.176	0.031

Constants of Dispersion Formula	
A_0	2.21807952E+00
A_1	-5.67922113E-03
A_2	8.28756139E-03
A_3	9.66891434E-05
A_4	3.56668643E-06
A_5	-3.63065113E-07

Density	
ρ (g/cm^3)	3.67

Solarization	
△λ (%)	-2.4

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	-5.4	-5.3	-5.3	-5.2	-5.1	-5.0	-4.9	-4.6	-4.6	-4.5
-40 ~ -20	-5.6	-5.4	-5.3	-5.3	-5.3	-5.3	-5.2	-5.1	-5.0	-4.8
-20 ~ 0	-5.8	-5.8	-5.7	-5.7	-5.7	-5.6	-5.5	-5.2	-5.2	-5.1
0 ~ 20	-6.1	-6.0	-5.9	-5.9	-5.9	-5.9	-5.8	-5.7	-5.6	-5.5
20 ~ 40	-6.4	-6.3	-6.2	-6.2	-6.2	-6.0	-6.0	-5.9	-5.8	-5.7
40 ~ 60	-6.6	-6.5	-6.4	-6.4	-6.5	-6.4	-6.3	-6.0	-6.0	-5.9
60 ~ 80	-6.8	-6.8	-6.7	-6.6	-6.6	-6.6	-6.5	-6.3	-6.2	-6.0
80 ~ 100	-7.0	-6.9	-6.9	-6.9	-6.9	-6.9	-6.8	-6.5	-6.4	-6.1
100 ~ 120	-7.2	-7.2	-7.1	-7.1	-7.1	-7.1	-6.9	-6.8	-6.7	-6.4
120 ~ 140	-7.5	-7.5	-7.4	-7.4	-7.4	-7.3	-7.1	-7.1	-7.0	-6.8
140 ~ 160	-7.9	-7.8	-7.7	-7.6	-7.6	-7.5	-7.4	-7.3	-7.2	-7.1

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	340/285
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	332/284

Constants of dn/dt		
D_0	D_1	D_2
-1.90E-05	-2.71E-09	-2.90E-11
E_0	E_1	λ_{TK}
3.52E-07	9.31E-11	2.28E-01