D-FK95 437951

n_d = 1.43700	υ_d = 95.10	$n_F - n_C$ = 0.004595
n_e = 1.43810	υ_e = 94.66	$n_{F'} - n_{C'}$ = 0.004628

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.42310
n_{1970}	1970.09	1.42566
n_{1530}	1529.58	1.42846
n_{1129}	1128.64	1.43091
n_{1064}	1064.00	1.43134
n_t	1013.98	1.43170
n_s	852.11	1.43306
$n_{A'}$	768.19	1.43396
n_r	706.52	1.43478
n_C	656.27	1.43559
$n_{C'}$	643.85	1.43582
n_{He-Ne}	632.80	1.43603
n_D	589.29	1.43696
n_d	587.56	1.43700
n_e	546.07	1.43810
n_F	486.13	1.44019
$n_{F'}$	479.99	1.44044
n_g	435.84	1.44264
n_h	404.66	1.44466
n_i	365.01	1.44803

Constants of Dispersion Formula	
A_0	2.04831817E+00
A_1	-4.48612591E-03
A_2	6.22248873E-03
A_3	-7.98581030E-06
A_4	1.22118495E-05
A_5	-7.39464344E-07

Density	
ρ (g/cm^3)	3.56

Solarization	
△λ (%)	-3.2

Relative Partial Dispersion	
$P_{d,C}$	0.3069
$P_{e,d}$	0.2394
$P_{g,F}$	0.5332
$P'_{d,c'}$	0.2550
$P'_{e,d}$	0.2377
$P'_{g,F'}$	0.4754

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0171
$\Delta P_{g,F}$	0.0475
$\Delta P_{C,t}$	-0.1544
$\Delta P_{C,s}$	-0.0780

Thermal Properties	
Tg (℃)	409
Ts (℃)	433
$T_{10}^{14.5}$ (℃)	377
T_{10}^{13} (℃)	390
$\alpha_{-50/80℃}$ (10^{-7}/K)	143
$\alpha_{100/300℃}$ (10^{-7}/K)	170
λ (W/(m·K))	0.97
β_d	45

Mechanical Properties	
HK (10^7Pa)	358
F_A	449
E (GPa)	71.4
G (GPa)	26.8
μ	0.333
σ_b (MPa)	31.9
B (10^{-12}/Pa)	0.59

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D_W	2
D_A	3
R_{OH} (S)	4
RP (S)	3

Expansion Coefficient α ($\times 10^{-7}$/K)	
℃	α
-50/-40	132
-40/-30	134
-30/-20	136
-20/-10	138
-10/0	140
0/10	142
10/20	143
20/30	145
30/40	147
40/50	149
50/60	151
60/70	153
70/80	154
80/90	155
90/100	156
100/110	157
110/120	158
120/130	159
130/140	161
140/150	163
150/160	164

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	0.998	0.997
440	0.998	0.997
420	0.998	0.997
400	0.998	0.997
390	0.998	0.997
380	0.998	0.997
370	0.997	0.995
360	0.994	0.988
350	0.986	0.973
340	0.965	0.932
330	0.925	0.856
320	0.845	0.714
310	0.716	0.513
300	0.535	0.286
290	0.367	0.135
280	0.205	0.042

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative ($\times 10^{-6}$ / ℃)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	-5.5	-5.3	-5.2	-5.2	-5.1	-5.0	-4.9	-4.8	-4.8	-4.5
-40 ~ -20	-6.0	-5.8	-5.7	-5.7	-5.6	-5.5	-5.3	-5.1	-5.1	-4.9
-20 ~ 0	-6.4	-6.2	-6.0	-6.0	-5.9	-5.8	-5.7	-5.5	-5.5	-5.3
0 ~ 20	-6.7	-6.5	-6.4	-6.4	-6.3	-6.2	-6.1	-5.8	-5.8	-5.6
20 ~ 40	-7.0	-6.8	-6.7	-6.7	-6.6	-6.4	-6.4	-6.2	-6.1	-5.9
40 ~ 60	-7.2	-7.0	-6.9	-6.9	-6.8	-6.7	-6.6	-6.5	-6.4	-6.2
60 ~ 80	-7.3	-7.2	-7.1	-7.1	-7.0	-6.9	-6.8	-6.7	-6.6	-6.4
80 ~ 100	-7.3	-7.2	-7.1	-7.1	-7.0	-6.9	-6.8	-6.7	-6.7	-6.5
100 ~ 120	-7.3	-7.2	-7.1	-7.1	-7.1	-7.0	-6.9	-6.7	-6.7	-6.6
120 ~ 140	-7.4	-7.3	-7.2	-7.1	-7.1	-7.0	-6.8	-6.7	-6.7	-6.6
140 ~ 160	-7.5	-7.4	-7.2	-7.2	-7.1	-7.0	-6.9	-6.8	-6.7	-6.5

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	330/280
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	326/280

Constants of dn/dt		
D_0	D_1	D_2
-2.28E-05	-4.73E-09	3.04E-11
E_0	E_1	λ_{TK}
6.79E-07	-1.59E-10	1.98E-07