

D-PK70	525703	$n_d = 1.52500$	$v_d = 70.32$	$n_F - n_C = 0.007470$
		$n_e = 1.52679$	$v_e = 70.11$	$n_{F'} - n_{C'} = 0.007510$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.49842
n_{1970}	1970.09	1.50393
n_{1530}	1529.58	1.50979
n_{1129}	1128.64	1.51461
n_{1064}	1064.00	1.51542
n_t	1013.98	1.51607
n_s	852.11	1.51845
$n_{A'}$	768.19	1.51999
n_r	706.52	1.52136
n_C	656.27	1.52269
$n_{C'}$	643.85	1.52306
n_{He-Ne}	632.80	1.52341
n_D	589.29	1.52493
n_d	587.56	1.52500
n_e	546.07	1.52679
n_F	486.13	1.53017
$n_{F'}$	479.99	1.53058
n_g	435.84	1.53413
n_h	404.66	1.53738
n_i	365.01	1.54287

Constants of Dispersion Formula	
A_0	2.29965045E+00
A_1	-1.03835061E-02
A_2	9.47420898E-03
A_3	3.16683036E-04
A_4	-2.62425226E-05
A_5	1.36324904E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
2.63	-2.0

Relative Partial Dispersion	
$P_{d,C}$	0.3092
$P_{e,d}$	0.2396
$P_{g,F}$	0.5301
$P'_{d,c'}$	0.2583
$P'_{e,d}$	0.2383
$P'_{g,F'}$	0.4727

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0011
$\Delta P_{g,F}$	0.0033
$\Delta P_{C,t}$	0.0053
$\Delta P_{C,s}$	-0.0016

Thermal Properties	
T _g (°C)	534
T _s (°C)	578
T ₁₀ ^{14.5} (°C)	505
T ₁₀ ¹³ (°C)	528
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	75
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	96
λ (W/(m·K))	0.97
β_d	175

Mechanical Properties	
HK (10 ⁷ Pa)	382
F _A	197
E (GPa)	74.3
G (GPa)	30.1
μ	0.233
σ_b (MPa)	67.3
B (10 ⁻¹² /Pa)	2.13

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

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	68
-40/-30	70
-30/-20	71
-20/-10	73
-10/0	74
0/10	75
10/20	76
20/30	76
30/40	77
40/50	78
50/60	79
60/70	79
70/80	80
80/90	81
90/100	82
100/110	83
110/120	85
120/130	86
130/140	87
140/150	88
150/160	90

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.655	0.429
2200	0.743	0.552
2000	0.852	0.727
1800	0.918	0.843
1600	0.973	0.947
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	0.996
440	0.997	0.993
420	0.996	0.990
400	0.994	0.987
390	0.992	0.984
380	0.990	0.981
370	0.988	0.976
360	0.984	0.969
350	0.980	0.960
340	0.969	0.940
330	0.949	0.900
320	0.906	0.822
310	0.833	0.693
300	0.713	0.508
290	0.542	0.294
280	0.345	0.119

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	330/275
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	318/274

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	0.0	0.4	0.7	0.7	0.8	0.9	1.1	1.3	1.3	1.6
-40 ~ -20	0.1	0.5	0.7	0.7	0.8	1.0	1.3	1.5	1.5	1.7
-20 ~ 0	0.2	0.5	0.7	0.7	0.9	1.1	1.3	1.6	1.7	1.9
0 ~ 20	0.2	0.6	0.8	0.8	0.9	1.1	1.4	1.7	1.8	2.1
20 ~ 40	0.3	0.8	0.9	0.9	1.0	1.2	1.6	1.8	2.0	2.3
40 ~ 60	0.4	0.8	1.0	1.0	1.1	1.3	1.7	2.0	2.1	2.5
60 ~ 80	0.5	0.9	1.1	1.1	1.2	1.5	1.8	2.1	2.3	2.6
80 ~ 100	0.5	0.9	1.2	1.3	1.3	1.6	1.9	2.3	2.4	2.8
100 ~ 120	0.6	1.0	1.3	1.4	1.5	1.9	2.1	2.4	2.6	2.9
120 ~ 140	0.8	1.1	1.4	1.5	1.6	2.1	2.2	2.6	2.8	3.2
140 ~ 160	0.9	1.2	1.5	1.6	1.7	2.2	2.4	2.7	2.8	3.3

Constants of dn/dt		
D ₀	D ₁	D ₂
-3.43E-06	1.50E-08	-2.67E-11
E ₀	E ₁	λ_{TK}
9.78E-07	1.29E-09	1.49E-08