

<b>D-K9</b>	<b>516641</b>	$n_d = 1.51633$	$v_d = 64.06$	$n_F - n_C = 0.008060$
		$n_e = 1.51825$	$v_e = 63.87$	$n_{F'} - n_{C'} = 0.008114$

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	2325.42	1.48801
$n_{1970}$	1970.09	1.49383
$n_{1530}$	1529.58	1.50003
$n_{1129}$	1128.64	1.50516
$n_{1064}$	1064.00	1.50603
$n_t$	1013.98	1.50673
$n_s$	852.11	1.50929
$n_{A'}$	768.19	1.51094
$n_r$	706.52	1.51241
$n_C$	656.27	1.51384
$n_{C'}$	643.85	1.51424
$n_{He-Ne}$	632.80	1.51461
$n_D$	589.29	1.51625
$n_d$	587.56	1.51633
$n_e$	546.07	1.51825
$n_F$	486.13	1.52190
$n_{F'}$	479.99	1.52236
$n_g$	435.84	1.52621
$n_h$	404.66	1.52976
$n_i$	365.01	1.53574

Constants of Dispersion Formula	
$A_0$	2.27095299E+00
$A_1$	-1.08648469E-02
$A_2$	1.05786491E-02
$A_3$	1.54454636E-04
$A_4$	5.64088446E-06
$A_5$	-4.70999004E-07

Density	Solarization
$\rho$ (g/cm <sup>3</sup> )	$\Delta\lambda$ (%)
2.39	-1.4

Relative Partial Dispersion	
$P_{d,C}$	0.3089
$P_{e,d}$	0.2382
$P_{g,F}$	0.5347
$P'_{d,c'}$	0.2576
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4745

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0020
$\Delta P_{g,F}$	-0.0025
$\Delta P_{C,t}$	0.0316
$\Delta P_{C,s}$	0.0104

Thermal Properties	
T <sub>g</sub> (°C)	497
T <sub>s</sub> (°C)	552
T <sub>10</sub> <sup>14.5</sup> (°C)	450
T <sub>10</sub> <sup>13</sup> (°C)	465
$\alpha_{50/80^\circ C}$ (10 <sup>-7</sup> /K)	58
$\alpha_{100/300^\circ C}$ (10 <sup>-7</sup> /K)	70
$\lambda$ (W/(m·K))	1.31
$\beta_d$	55

Mechanical Properties	
HK (10 <sup>7</sup> Pa)	581
F <sub>A</sub>	81
E (GPa)	79.0
G (GPa)	32.7
$\mu$	0.208
$\sigma_b$ (MPa)	91.7
B (10 <sup>-12</sup> /Pa)	2.73

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D <sub>W</sub>	1
D <sub>A</sub>	1
R <sub>OH</sub> (S)	2
RP (S)	1

Expansion Coefficient $\alpha$ (×10 <sup>-7</sup> /K)	
°C	$\alpha$
-50/-40	52
-40/-30	54
-30/-20	55
-20/-10	56
-10/0	57
0/10	57
10/20	58
20/30	59
30/40	59
40/50	60
50/60	61
60/70	61
70/80	61
80/90	62
90/100	63
100/110	63
110/120	64
120/130	66
130/140	67
140/150	68
150/160	69

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.878	0.771
2200	0.939	0.882
2000	0.985	0.970
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	0.999	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	0.998	0.997
380	0.997	0.996
370	0.996	0.995
360	0.993	0.987
350	0.987	0.976
340	0.973	0.950
330	0.947	0.898
320	0.891	0.794
310	0.774	0.598
300	0.556	0.308
290	0.256	0.066
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	330/280
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	320/280

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 <sup>-6</sup> / °C)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.5	3.6	3.9
-40 ~ -20	2.7	2.8	2.9	3.1	3.1	3.3	3.4	3.6	3.7	4.0
-20 ~ 0	2.7	2.9	3.1	3.2	3.3	3.3	3.4	3.7	3.7	4.1
0 ~ 20	2.8	3.0	3.2	3.3	3.3	3.3	3.5	3.7	3.8	4.2
20 ~ 40	2.9	3.1	3.2	3.4	3.5	3.5	3.6	3.7	3.9	4.2
40 ~ 60	2.9	3.2	3.2	3.4	3.5	3.6	3.6	3.8	4.0	4.3
60 ~ 80	2.9	3.3	3.4	3.5	3.6	3.6	3.7	3.8	4.0	4.4
80 ~ 100	3.0	3.3	3.5	3.6	3.6	3.7	3.7	3.9	4.0	4.6
100 ~ 120	3.0	3.3	3.5	3.7	3.7	3.8	3.9	4.0	4.0	4.8
120 ~ 140	3.1	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.9
140 ~ 160	3.1	3.4	3.7	3.9	3.9	4.0	4.2	4.2	4.3	5.1

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
3.06E-06	1.56E-08	-3.00E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
4.56E-07	3.40E-10	2.15E-01