



**Product Information: CORNING: 0211 MICROSHEET**

5/27/05

**Properties**

**Thickness**

	#00	#0	#1	#1 1/2	#2	#3	#4
Min. (in./mm)	.0020/.05	.0033/.08	.0051/.13	.0063/.16	.0075/.19	.0098/.25	.0170/.43
Max.(in./mm)	.0033/.08	.0051/.13	.0063/.16	.0075/.19	.0098/.25	.0138/.35	.0250/.64

**Full Sheet Size**

Width (in)	15 1/4	15 1/4	16 1/4	16	16 1/4	16 1/2	16 1/2	17
Length (in)	15-16	15-16	15-16	15-16	15-16	14-16	14-16	14-16
Width (mm)	387	387	412	406	412	419	419	432
Length (mm)	381-406	381-406	381-406	381-406	381-406	355-406	355-406	355-406

**Minimum Quality**

Area (Sq. in./mm)	180/4572	180/4572	214/5436	214/5436	225/5715	182/4623	182/4623	196/4978
Width (in./mm)	12/304	12/304	14.25/362	14.25/362	15/381	13/330	13/330	14/355
Length(in/mm)	15/381	15/381	15/381	15/381	15/381	14/355	14/355	14/355

**Mechanical**

	<b>Metric</b>	<b>English</b>
Density	2.53 g/cm <sup>3</sup>	157.9 lb/ft <sup>3</sup>
Young's Modulus	7.59 x 10 <sup>3</sup> kg/mm <sup>2</sup>	10.8 x 10 <sup>6</sup> psi
Poisson's Ratio	0.22	
Shear Modulus	3.09 x 10 <sup>3</sup> kg/mm <sup>2</sup>	4.4 x 10 <sup>6</sup> psi
Knoop Hardness (KHN <sub>100</sub> )	458	

**Viscosity**

Working Point (10 <sup>4</sup> poises)	1008°C	1846°F
Softening Point (10 <sup>7.6</sup> poises)	720°C	1328°F
Annealing Point (10 <sup>13</sup> poises)	550°C	1022°F
Strain Point (10 <sup>14.5</sup> poises)	508°C	946°F

**Thermal**

Coefficient of Expansion (0-300°C)	73.8 x 10 <sup>-7</sup> /°C	41.0 x 10 <sup>-7</sup> /°F
(25°C to set Point 513°C)	84.0 x 10 <sup>-7</sup> /°C	46.7 x 10 <sup>-7</sup> /°F
Thermal Conductivity, 0°C	.0023 cal/cm sec cm <sup>2</sup> C	.54 Btu ft hft <sup>2</sup> C

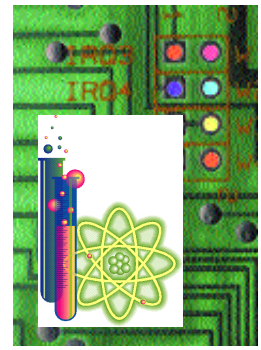
**Optical**

Refractive Index (589.3 nm)	1.523
Transmission @ 420 nm	92%*
@ 2200 nm	92%*

\*Through a sample thickness 1.0 mm

**Electrical**

Log <sub>10</sub> Volume Resistivity @ 250°C	8.3 ohm-cm
@ 350°C	6.7 ohm-cm
Dielectric Constant @ 20°C; 1 Mhz	6.7
Loss Tangent @ 20°C; 1 Mhz	0.46%



**HIGH TECHNOLOGY**

FUSED SILICA/FUSED QUARTZ

HIGH PURITY ALUMINA / SAPPHIRE

OPTICAL GLASS, BK-7, B270

GLASS FORMED APPARATUSES

POLARIZED FILTERS LAMINATIONS

NEUTRAL DENSITY FILTERS

CNC, CAD/CAM CONTROLLED MANUFACTURING