



\*\* SEMITRON® is the registered trademark of

**MITSUBISHI CHEMICAL  
ADVANCED MATERIALS**

## PRODUCT CAPABILITIES:

- Sheet : 250 x 250mm  
500 x 500mm
- Thickness : 1mm, 2mm, 3mm, 3.5mm,  
4mm, 5mm, 6mm, 8mm, 10mm, 12mm

## ADVANTAGES:

- Very Low moisture absorption
- Excellent Dimensional Stability
- Good Impact Strength, Stiffness  
and Minimum Levels of Creep.
- Excellent Machinability for Tighter Pitch  
and Fine Diameter Holes.
- Low CLTE means parts stay in  
specification.

## PRODUCT COLORS:

- Beige

## APPLICATIONS INCLUDE:

- Tests Sockets for the semiconductor  
manufacturing industry
- Fixtures for electronics testing
- Mounting points for precision diagnostic  
equipment
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- Positioning platforms for miniature motion  
control devices

GENERAL PROPERTIES	ASTM or UL Test	SEMITRON® MDS 100 Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.51
Water Absorption, 24 hrs (%)	D570	0.10
<b>MECHANICAL</b>		
Tensile Strength (psi)	D638	14,700
Tensile Modulus (psi)	D638	1,500,000
Tensile Elongation at Break (%)	D638	1.5
Flexural Strength (psi)	D790	20,500
Flexural Modulus (psi)	D790	1,420,000
Compressive Strength (psi)	D695	-
IZOD Notched Impact (ft-lb/in)	D256	-
IZOD Un-Notched Impact (ft-lb/in)	D256	-
Hardness, Rockwell	D785	R 121
<b>THERMAL</b>		
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> in./in./°F)	E-831	1.1
Heat Deflection Temp (°F / °C) @ 264 psi	D648	410 / 210
Melting Point (°F / °C)	D3418	635 / 335
Tg Glass Transition Temp (°F / °C)	D3418	-
Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F)	C177	-
Flammability Rating	UL94	-
<b>ELECTRICAL</b>		
Dielectric Strength (V/mil) short time, (t) 1/8"	D149	376
Dielectric Constant at 1KHz	D150	3.37
Dissipation Factor at 1KHz	D150	0.007
Surface Resistivity (ohm/sq)	EOS/ESD S11.11	>10 <sup>13</sup>