



** SEMITRON® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

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

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
- Mounting points for precision diagnostic
equipment
- Positioning platforms for miniature motion
control devices

GENERAL PROPERTIES	ASTM or UL Test	SEMITRON® MDS 100 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.51
Water Absorption, 24 hrs (%)	D570	0.10
MECHANICAL		
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
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ 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 ² -hr-°F)	C177	-
Flammability Rating	UL94	-
ELECTRICAL		
Dielectric Strength (V/mil) short time, (t) 1/8"	D149	362
Dielectric Constant at 1KHz	D150	3.37
Dissipation Factor at 1KHz	D150	<0.007
Surface Resistivity (ohm/sq)	EOS/ESD S11.11	>10 ¹³

NOTE: The information contained here in is typical values intended for reference only.
They should NOT be used as a basis for design specifications or quality control.