



** SEMITRON® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

- STOCK SHAPES
· Sheet : 1/4" - 1"

ADVANTAGES:

- Very Low Moisture Absorption
- Finer, Cleaner Detail Possible
- Excellent Machinability.
- Very High Level Of Precision Possible – Low Internal Stresses.
- Good Value – An Ideal Choice For Specific Application Environments

PRODUCT COLORS:

- Grey

APPLICATIONS INCLUDE:

- IC Test Sockets For Semiconductor Manufacturing Equipment
- Structural Parts In Electronics And Telecom Equipment
- Insulating Blocks And Fixtures In Diagnostic Equipment

GENERAL PROPERTIES	ASTM or UL Test	SEMITRON MP-370 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.62
Water Absorption, 24 hrs (%)	D570	0.11
MECHANICAL		
Tensile Strength (psi)	D638	11,500
Tensile Modulus (psi)	D638	640,000
Tensile Elongation at Break (%)	D638	3
Flexural Strength (psi)	D790	16,750
Flexural Modulus (psi)	D790	625,000
Compressive Strength (psi)	D695	18,200
Compressive Modulus (psi)	D695	600,000
Hardness, Rockwell	D785	M98
IZOD Notched Impact (ft-lb/in)	D256	0.4
THERMAL		
Coeff. of Thermal Expansion(x 10 ⁻⁵ in./in./°F)	E831	2.5
Heat Deflection Temp (°F / °C) @ 264 psi	D648	300 / 149
Glass Transition Temp (°F / °C)	D3418	320 / 160
Max Operating Temp (°F / °C)	-	480 / 249
Thermal Conductivity (BTU-in/ft ² -hr-°F)	E1530	2.36
Flammability Rating	UL94	V-O
ELECTRICAL		
Dielectric Strength (V/mil) short time	D149	376
Dielectric Constant at 1 MHz	D150	4.13
Dissipation Factor at 1 MHz	D150	0.004
Surface Resistivity (ohm/sq)at 50% RH	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.