



SEMITRON® ESD 520HR

Static Dissipative Reinforced PolyAmidelmide (PAI) / Static Dissipative Reinforced Torlon



** SEMITRON® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

- Sheet : 3/8" - 1.5"
- Rod: 3/8" - 1.25" (custom)

ADVANTAGES:

- Surface And Volume Resistivity In The Range Of 10^{10} to 10^{11} ohms/sq
- High Stiffness / Strength
- Dimensional Stability
- Thermally Stable To Temperature Of 520°F / 270°C Without Degradation

PRODUCT COLORS:

- Khaki Grey

APPLICATIONS INCLUDE:

- Nets
- Sockets
- Contractors
- Semiconductor / Electronic Components
- Handling Components

GENERAL PROPERTIES	ASTM or UL Test	SEMITRON® ESD 520HR Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.58
Water Absorption, 24 hrs (%)	D570	0.6
MECHANICAL		
Tensile Strength (psi)	D638	12,000
Tensile Modulus (psi)	D638	800,000
Tensile Elongation at Yield (%)	D638	3
Flexural Strength (psi)	D790	20,000
Flexural Modulus (psi)	D790	850,000
Compressive Strength (psi)	D695	30,000
Compressive Modulus (psi)	D695	600,000
Hardness, Rockwell	D785	M108
IZOD Notched Impact (ft-lb/in)	D256	0.8
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	E831	2.8
Heat Deflection Temp (°F / °C) @ 264 psi	D648	520 / 271
Max Operating Temp (°F / °C)	-	500 / 260
Thermal Conductivity (BTU-in/ft ² -hr-°F)	F433	2.6
Flammability Rating	UL-94	V-O
ELECTRICAL		
Dielectric Strength (V/mil) short time, @ 1/8" thk	D149	-
Surface Resistivity (ohm/sq) at 50% RH	EOS/ESD S11.11	10^{10} - 10^{11}

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.