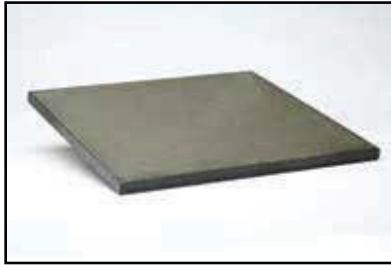




# SEMITRON<sup>®</sup> ESD 520HR

Resistive Reinforced PolyAmidelmide (PAI / Torlon)



\*\* SEMITRON<sup>®</sup> is the registered trademark of

**MITSUBISHI CHEMICAL  
ADVANCED MATERIALS**

## PRODUCT CAPABILITIES:

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

## ADVANTAGES:

- Surface Resistivity In The Range Of  $10^{10}$  to  $10^{12}$  ohm/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 <sup>®</sup> ESD 520HR Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.58
Water Absorption, 24 hrs (%)	D570	0.6
<b>MECHANICAL</b>		
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
Hardness, Rockwell	D785	E73
IZOD Notched Impact (ft-lb/in)	D256	0.8
<b>THERMAL</b>		
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> 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 <sup>2</sup> -hr-°F)	F433	2.48
Flammability Rating	UL-94	V-0
<b>ELECTRICAL</b>		
Dielectric Strength (V/mil) short time, @ 1/8" thk	D149	475
Surface Resistivity (ohm/sq)	ANSI / ESD STM 11.11	$10^{10}$ - $10^{12}$
Volume Resistivity (ohm/cm)	IEC 60093	-

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.

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