



# SEMITRON® ESD 300

Static Dissipative PolyEthylene Terephthalate (PET) / Static Dissipative PET



\*\* SEMITRON® is the registered trademark of

## PRODUCT CAPABILITIES:

- STOCK SHAPES
- Sheet : 3/8" - 2"
  - Rod : Dia. 3/8" - 1.25" (Custom)

## ADVANTAGES:

- High Dimensional Stability
- Consistent Electrical Properties
- Low Water Absorption
- Outstanding Toughness
- Exhibiting Low Coefficient of Thermal Expansion

## PRODUCT COLORS:

- Black

## APPLICATIONS INCLUDE:

- Disk Drive Assembly Fixtures
- Semiconductor/Electronic Components
- Telecommunication Hardware
- Automotive Equipment

## QUADRANT

GENERAL PROPERTIES	ASTM or UL Test	Semitron ESD300 Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.39
Water Absorption, 24 hrs (%)	D570	0.03
<b>MECHANICAL</b>		
Tensile Strength (MPa)	D638	82.0
Tensile Elongation (%)	D638	10.0
Flexural Strength (MPa)	D790	127.0
Flexural Modulus (MPa)	D790	3,294
Compressive Strength (MPa)	D695	-
Compressive Modulus (MPa)	D695	-
Hardness, Rockwell	D785	M115/R125
IZOD Notched Impact (J/m)	D256	29
<b>THERMAL</b>		
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> /°C)	D696	5.5
Heat Deflection Temp (°F / °C) @ 0.445MPa	D648	380 / 193
Continuous Service Temperature (°F / °C)	-	212 / 100
Melting Point (°F / °C)	DSC	485 / 251
Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F)	F433	-
Flammability Rating	UL-94	HB
<b>ELECTRICAL</b>		
Dielectric Strength (V/mil) short time	D149	-
Dissipation Factor at 1 MHz	D150	-
Surface Resistivity (ohm-cm)	D257	10 <sup>6</sup> - 10 <sup>9</sup>

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.