



SEMITRON® ESD 410C

Static Dissipative PolyEtherImide (PEI) / Static Dissipative ULTEM



** SEMITRON® is the registered trademark of

PRODUCT CAPABILITIES:

- Sheet : 3/8" - 2"
- Rod: 3/8" - 1.25" (custom)

ADVANTAGES:

- Good Dimensional Stability
- Consistent Electrical Properties
- Excellent Surface Quality
- Outstanding Toughness
- Excellent Thermal Stability

PRODUCT COLORS:

- Black

APPLICATIONS INCLUDE:

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

QUADRANT

GENERAL PROPERTIES	ASTM or UL Test	SEMITRON® ESD410C Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.41
Water Absorption, 24 hrs (%)	D570	0.3
MECHANICAL		
Tensile Strength (psi)	D638	9,000
Tensile Modulus (psi)	D638	850,000
Tensile Elongation at Yield (%)	D638	2
Flexural Strength (psi)	D790	12,000
Flexural Modulus (psi)	D790	850,000
Compressive Strength (psi)	D695	19,500
Compressive Modulus (psi)	D695	600,000
Hardness, Rockwell	D785	M115/R125
IZOD Notched Impact (ft-lb/in)	D256	0.8
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	E831	1.8
Heat Deflection Temp (°F / °C) @ 264 psi	D648	410 / 210
Glass Transition Temp (°F / °C)	D3418	410 / 210
Max Operating Temp (°F / °C)	-	338 / 170
Thermal Conductivity (BTU-in/ft ² -hr-°F)	F433	2.45
Flammability Rating	UL-94	V-O
ELECTRICAL		
Dielectric Strength (V/mil) short time, @ 1/8" thk	D149	-
Dissipation Factor at 1 MHz	D150	-
Surface Resistivity (ohm/sq) at 50% RH	EOS/ESD S11.11	10 ⁴ - 10 ⁶

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.