



R-GUARD™ 801

Electro-Static Dissipative Polyetheretherketone / Electro-Static Dissipative PEEK



** R-GUARD® is the registered trademark of

WPS INTERNATIONAL

PRODUCT CAPABILITIES:

- Sheet : 1/4" - 2"
- Rod : 1/4" - 2" (Custom)

ADVANTAGES:

- Uniform And Efficient Electro - Static Dissipation Capabilities
- High Temperature Resistance- Up to 500°F (260°C)
- Excellent Strength, Toughness
- Excellent Dimensional Stability
- Low Moisture Absorption
- Superior Wear Resistance And Low Coefficient Of Friction
- Excellent Chemical Resistance (Including Steam)

PRODUCT COLORS:

- Grey

APPLICATIONS INCLUDE:

- Disk Drive Manufacturing Equipment / Jig / Fixture
- Semiconductor And IC Assembly Fixture

GENERAL PROPERTIES	ASTM or UL Test	R-guard™ 801 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.37
Water Absorption, 24 hrs (%)	D570	0.2
MECHANICAL		
Tensile Strength (psi)	D638	12,200
Tensile Elongation at Break (%)	D638	3.7
Flexural Strength (psi)	D790	18,000
Flexural Modulus (psi)	D790	589,000
Hardness, Shore D	D2240	85
IZOD Notched Impact (ft-lb/in)	D256	2
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	2.4
Heat Deflection Temp (°F / °C) @ 264 psi	D648	338 / 170
Relative Thermal Index w/o Impact (°F / °C)	UL746B	480 / 249
Glass Transition Temperature – Tg (°F / °C)	D3418	289 / 143
Flammability Rating	UL94	V-O
ELECTRICAL		
Surface Resistivity (ohms/cm)	EOS S11.11	10 ⁹ - 10 ¹²
Volume Resistivity (ohm-cm)	STM 11.12	10 ⁹ - 10 ¹²
Static Decay (Seconds)	FTMS-101C	< 2.0

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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