



# R-GUARD™ FP-9

Electro-Static Dissipative (ESD) Flexible Plastic



\*\* R-GUARD® is the registered trademark of

**WPS INTERNATIONAL**

## PRODUCT CAPABILITIES:

- Sheet : 1/4" - 2"

## ADVANTAGES:

- Ultra Clean: Low Out-Gassing And Low Ionics
- Extremely High Toughness
- Excellent Shock Absorbing Properties (Durometer of 85 Shore A)
- Excellent Chemical Resistance
- Very Easy to Machine And Fabricate

## PRODUCT COLORS:

- Translucent Beige
- White

## APPLICATIONS INCLUDE:

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

GENERAL PROPERTIES	ASTM or UL Test	R-guard™ FP-9 Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.2
Water Absorption, 24 hrs (%)	D570	-
<b>MECHANICAL</b>		
Tensile Strength (psi)	D412	4,400
Tensile Elongation at Break (%)	D412	650
Flexural Modulus @ 100% (psi)	D412	750
Flexural Modulus @ 100% (psi)	D412	1190
Tear Strength (Lb./in.)	D646	370
Hardness, Shore A	D2240	85
<b>THERMAL</b>		
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> in./in./°F)	D696	8.9
Engineering Utility Temp (°F / °C)	WPSI Std.	200 / 93
Relative Thermal Index w/o Impact (°F / °C)	-	-
Flammability Rating	UL-94	HB
<b>ELECTRICAL</b>		
Surface Resistivity (ohms/sq)	D257	10 <sup>8</sup> - 10 <sup>10</sup>
Volume Resistivity (ohm-cm)	D257	2.0 x 10 <sup>12</sup>
Static Decay (Seconds)	FTMS-101C	0.9

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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