



# SEMITRON® POM CNT

Dissipative Acetal Copolymer / Carbon Nano Tube



## PRODUCT CAPABILITIES:

STOCK SHAPES  
· Sheet : 10, 12 & 20mm

## ADVANTAGES:

· ESD Characteristics  
· Constant Conductivity between  $10^6$  &  $10^9$

## PRODUCT COLORS:

● Black

## APPLICATIONS INCLUDE:

· Integrated Chip Test Jigs  
· Basic Electronics Assembly Fixturing  
· Basic Test Sockets & PCB Test Jigs

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**MITSUBISHI CHEMICAL  
ADVANCED MATERIALS**

GENERAL PROPERTIES	ASTM or UL Test	SEMITRON® POM CNT Typical Values
<b>PHYSICAL</b>		
Density (g/cm <sup>3</sup> )	D792	1.34
Water Absorption, 24 hrs (%)	D570	-
<b>MECHANICAL</b>		
Tensile Strength (MPa)	D638	40.9
Tensile Elongation (%)	D638	23
Flexural Strength (MPa)	D790	48.3
Flexural Modulus (GPa)	D790	1.63
IZOD Notched Impact (J/m)	D256	98
IZOD Un-Notched Impact (J/m)	D256	-
Hardness, Shore D	D2240	-
<b>THERMAL</b>		
Coeff. of Linear Thermal Expansion (x 10 <sup>-5</sup> / K)	D696	-
Heat Deflection Temp (°C) at 264 psi	D648	80
Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F)	D3418	-
Flammability Rating	UL-94	HB
<b>ELECTRICAL</b>		
Surface Resistivity (ohms)	ESD11.11	$10^6 - 10^9$
Volume Resistivity (ohm-cm) at 73°F, 50% RH	D257	-
Static Decay, 15% RH (seconds)	MIL-B-81705-B	-

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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