



Technical Data Sheet

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Preliminary

Material: Ecomass® Compound 1007TU78

Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications

Description / Features: Tungsten Powder Filled Co-Polyamide (COPA), Excellent Toughness

Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	Internal	3.80	

Mechanical Properties			
Tensile Strength	ISO 527	29	Mpa
Tensile Modulus	ISO 527	979	Mpa
Tensile Elongation at Break	ISO 527	76.4	%
Flexural Modulus	ISO 178	870	Mpa
Izod Impact Strength, notched	ISO 180/A	6.8	KJ/m ²

Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	N/A	°C
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°C

Electrical Properties			
Surface Resistivity		N/A	ohms/sq

Processing Information			
Melt Temperature Range		230 - 250	°C
Mold Temperature Range		65 - 80	°C
Mold Shrinkage Rate	Internal	0.010-0.012	mm/mm
Pre-Drying Conditions		4 hrs @ 75°C	

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