


# 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
<b>Physical Properties</b>			
Product Form		Pellets	
Specific Gravity	Internal	3.80	

<b>Mechanical Properties</b>			
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

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

<b>Electrical Properties</b>			
Surface Resistivity		N/A	ohms/sq

<b>Processing Information</b>			
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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