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# Technical Data Sheet

Preliminary

**Material:**  **Ecomass® Compound 1005ZD96**  
*Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications*

**Description / Features:** High Specific Gravity, 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	ASTM D792	10.00	
<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638	3,850	psi
Tensile Modulus	ASTM D638	700,000	psi
Tensile Elongation at Break	ASTM D638	4.5	%
Flexural Modulus	ASTM D790	520,000	psi
Flexural Strength	ASTM D790	11,500	psi
Izod Impact Strength, notched	ASTM D256	2.5	ft-lb/in
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	150	°F
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°F
<b>Electrical Properties</b>			
Surface Resistivity	ASTM D257	0.2	ohms/sq
<b>Processing Information</b>			
Melt Temperature Range		450-480	°F
Mold Temperature Range		150-180	°F
Mold Shrinkage Rate	ASTM D955	0.005-0.007	in/in
Pre-Drying Conditions		4 hrs @ 165°F	

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