



# Technical Data Sheet

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**Preliminary**

**Material:** Ecomass® Compound 1002TU96

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

**Description / Features:** High Specific Gravity, Tungsten Powder Filled Polyether Block Amide (PEBA)

**Processing Method:** Injection Molding

## Physical Properties

	Test Method	Value	Units
<b>Physical Properties</b>			
Product Form		Pellets	
Specific Gravity	ASTM D792	11.00	
<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638	2,750	psi
Tensile Modulus	ASTM D638	300,000	psi
Tensile Elongation at Break	ASTM D638	12	%
Flexural Modulus	ASTM D790	110,000	psi
Flexural Strength	ASTM D790	5,000	psi
Izod Impact Strength, notched	ASTM D256	5.0	ft-lb/in
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	125	°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		450-500	°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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