



# Technical Data Sheet

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**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	English		SI		
	Value	Units	Value	Units	
<b>Physical Properties</b>					
Product Form	Pellets		Pellets		
Specific Gravity	ASTM D792	11.00	g/cc	11.00	g/cc
<b>Mechanical Properties</b>					
Tensile Strength	ASTM D638	2,750	psi	19	Mpa
Tensile Modulus	ASTM D638	300,000	psi	2,069	Mpa
Tensile Elongation at Break	ASTM D638	12	%	12	%
Flexural Modulus	ASTM D790	110,000	psi	759	Mpa
Flexural Strength	ASTM D790	5,000	psi	34	Mpa
Izod Impact Strength, notched	ASTM D256	5.0	ft-lb/in	267	J/m
<b>Thermal Properties</b>					
Heat Deflection Temperature at 66 psi	ASTM D648	125	°F	52	°C
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°F	N/A	°C
<b>Electrical Properties</b>					
Surface Resistivity	ASTM D257	0.2	ohms/sq	0.2	ohms/sq
<b>Processing Information</b>					
Melt Temperature Range		450-500	°F	230 - 260	°C
Mold Temperature Range		150-180	°F	65 - 80	°C
Mold Shrinkage Rate	ASTM D955	0.005-0.007	in/in	0.5 - 0.7	%
Pre-Drying Conditions		4 hrs @ 165°F		4 hrs @ 75 °C	

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