



The strength of chemicals.

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Technical Data Sheet

Preliminary

Material: Ecomass® Compound 1003TU96

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
Physical Properties			
Product Form		Pellets	
Specific Gravity	ASTM D792	11.00	
Mechanical Properties			
Tensile Strength	ASTM D638	2,750	psi
Tensile Modulus	ASTM D638	650,000	psi
Tensile Elongation at Break	ASTM D638	5	%
Flexural Modulus	ASTM D790	450,000	psi
Flexural Strength	ASTM D790	9,000	psi
Izod Impact Strength, notched	ASTM D256	2.0	ft-lb/in
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	125	°F
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°F
Electrical Properties			
Surface Resistivity	ASTM D257	0.2	ohms/sq
Processing Information			
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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