



The strength of chemicals.

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# Technical Data Sheet

Preliminary

**Material:** Ecomass® Compound 1080ZD96

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

**Description / Features:** High Specific Gravity, Tungsten Powder Filled Polyamide (PA) Alloy, 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	5,050	psi
Tensile Modulus	ASTM D638	935,000	psi
Tensile Elongation at Break	ASTM D638	3.4	%
Flexural Modulus	ASTM D790	705,000	psi
Flexural Strength	ASTM D790	7,100	psi
Izod Impact Strength, notched	ASTM D256	2.7	ft-lb/in
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	250	°F
Heat Deflection Temperature at 264 psi	ASTM D648	225	°F
<b>Electrical Properties</b>			
Surface Resistivity	ASTM D257	0.21	ohms/sq
<b>Processing Information</b>			
Melt Temperature Range		400 - 490	°F
Mold Temperature Range		135 - 180	°F
Mold Shrinkage Rate	ASTM D955	0.005 - 0.006	in/in
Pre-Drying Conditions		4 hrs. @ 165°F	

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