



# Technical Data Sheet

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Preliminary

**Material:** Ecomass® Compound 3608TU96

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

**Description / Features:** High Specific Gravity, Tungsten Powder Filled Polyethylene (HDPE)

**Processing Method:** Injection Molding, Compression 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	839	psi
Tensile Modulus	ASTM D638	340,600	psi
Tensile Elongation at Break	ASTM D638	3.5	%
Flexural Modulus	ASTM D790	286,000	psi
Flexural Strength	ASTM D790	2,060	psi
Izod Impact Strength, notched	ASTM D256	1.0	ft-lb/in
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	170	°F
Heat Deflection Temperature at 264 psi	ASTM D648	150	°F
<b>Electrical Properties</b>			
Surface Resistivity	ASTM D257	0.2	ohms/sq
<b>Processing Information</b>			
Melt Temperature Range		350 - 440	°F
Mold Temperature Range		70 - 150	°F
Mold Shrinkage Rate	ASTM D955	0.006 - 0.010	in/in
Pre-Drying Conditions		Not Required	

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