



# Technical Data Sheet

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**Preliminary**

**Material:** Ecomass<sup>®</sup> Compound 4150TU96

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

**Description / Features:** High Specific Gravity, Tungsten Powder Filled Polyphenylene Sulfide (PPS)

**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	6,500	psi
Tensile Modulus	ASTM D638	1,400,000	psi
Tensile Elongation at Break	ASTM D638	3	%
Flexural Modulus	ASTM D790	1,220,000	psi
Flexural Strength	ASTM D790	9,200	psi
Izod Impact Strength, notched	ASTM D256	1.0	ft-lb/in
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	392	°F
Heat Deflection Temperature at 264 psi	ASTM D648	221	°F
<b>Electrical Properties</b>			
Surface Resistivity	ASTM D257	N/A	ohms/sq
<b>Processing Information</b>			
Melt Temperature Range		600 - 650	°F
Mold Temperature Range		275 - 300	°F
Mold Shrinkage Rate	ASTM D955	0.008 - 0.010	in/in
Pre-Drying Conditions		4 hrs @ 275°F	

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