

## **Technical Data Sheet**

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Material: Ecomass® Compound 4703ZD84

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

Description / Features: Moderate Specific Gravity, Tungsten Powder Filled Polyurethane (TPU)

Processing Method: Injection Molding

## **Physical Properties**

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	ASTM D792	5.60	
Mechanical Properties			
Tensile Strength	ASTM D638	3,100	psi
Tensile Modulus	ASTM D638	90,000	psi
Tensile Elongation at Break	ASTM D638	59	%
Flexural Modulus	ASTM D790	14,000	psi
Flexural Strength	ASTM D790	8,000	psi
Izod Impact Strength, notched	ASTM D256	7.4	ft-lb/in
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	N/A	°F
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°F
<b>Electrical Properties</b>			
Surface Resistivity	ASTM D257	N/A	ohms/sq
Processing Information			
Melt Temperature Range		400 - 430	°F
Mold Temperature Range		50 -80	°F
Mold Shrinkage Rate	ASTM D955	0.004 - 0.006	in/in
Pre-Drying Conditions	2 hrs at 200°F then reduce to 160°F (do not over-dry)		

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