



Technical Data Sheet

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Preliminary

Material: Ecomass® Compound 5100TU96

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

Description / Features: High Specific Gravity, Tungsten Powder Filled SEBS Base Resin, Very Flexible

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	196	psi
Tensile Modulus	ASTM D638	N/A	psi
Tensile Elongation at Break	ASTM D638	177	%
Flexural Modulus	ASTM D790	13,300	psi
Flexural Strength	ASTM D790	386	psi
Izod Impact Strength, notched	ASTM D256	2.0	ft-lb/in
Hardness	ASTM D2240	23	Shore D
Thermal Properties			
Heat Deflection Temperature	ASTM D648	N/A	°F
Heat Deflection Temperature	ASTM D648	N/A	°F
Electrical Properties			
Surface Resistivity	ASTM D257	N/A	ohms/sq
Processing Information			
Melt Temperature Range		300 - 400	°F
Mold Temperature Range		70 - 100	°F
Mold Shrinkage Rate	ASTM D955	0.003 - 0.005	in/in
Pre-Drying Conditions		Not Required	

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