



The strength of chemicals.
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Technical Data Sheet



Material: Ecomass[®] Compound 5033ZS87

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

Description / Features: High Specific Gravity, SS / Tungsten Powder Filled Styrene Isoprene Styrene (SIS), Flexible

Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	ASTM D792	4.50	

Mechanical Properties			
Tensile Strength	ASTM D638	1,900	psi
Tensile Modulus	ASTM D638	99,000	psi
Tensile Elongation at Break	ASTM D638	16	%
Flexural Modulus	ASTM D790	115,000	psi
Flexural Strength	ASTM D790	3,500	psi
Izod Impact Strength, notched	ASTM D256	7.0	ft-lb/in

Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	NA	°F
Heat Deflection Temperature at 264 psi	ASTM D648	NA	°F

Electrical Properties			
Surface Resistivity	ASTM D257	0.2	ohms/sq

Processing Information			
Melt Temperature Range		220 - 375	°F
Mold Temperature Range		70 - 110	°F
Mold Shrinkage Rate	ASTM D955	0.004 - 0.008	in/in
Pre-Drying Conditions		NA	

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