



The strength of chemicals.

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Technical Data Sheet

Preliminary

Material: Ecomass® Compound 1850ZD96

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

Description / Features: High Specific Gravity, Tungsten Powder Filled Polyamide 6 (PA6), Rigid

Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	ASTM D792	10.0	g/cc
Mechanical Properties			
Tensile Strength	ASTM D638	7,900	psi
Tensile Modulus	ASTM D638	NA	psi
Tensile Elongation at Break	ASTM D638	3	%
Flexural Modulus	ASTM D790	2,600,000	psi
Flexural Strength	ASTM D790	10,500	psi
Izod Impact Strength	ASTM D256	1.5	ft-lb/in
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	160	°F
Heat Deflection Temperature at 264 psi	ASTM D648	140	°F
Electrical Properties			
Surface Resistivity	ASTM D257	NA	ohms/sq
Processing Information			
Melt Temperature Range		490 - 550	°F
Mold Temperature Range		150 - 180	°F
Mold Shrinkage Rate		.004 - .006	in/in
Pre-Drying Conditions		2 - 4 hours @ 165F	

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