



The strength of chemicals.

4917 Golden Parkway, Suite 300
Buford, GA 30518
770-237-2311



Technical Data Sheet

Preliminary

Material: Ecomass® Compound 1050ZD96

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

Description / Features: High Specific Gravity, Tungsten Powder Filled Polyamide (PA) Alloy, Good Toughness

Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	ASTM D792	10.00	
Mechanical Properties			
Tensile Strength	ASTM D638	5,000	psi
Tensile Modulus	ASTM D638	935,000	psi
Tensile Elongation at Break	ASTM D638	1.7	%
Flexural Modulus	ASTM D790	725,000	psi
Flexural Strength	ASTM D790	7,100	psi
Izod Impact Strength, notched	ASTM D256	2.1	ft-lb/in
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	275	°F
Heat Deflection Temperature at 264 psi	ASTM D648	250	°F
Electrical Properties			
Surface Resistivity	ASTM D257	0.25	ohms/sq
Processing Information			
Melt Temperature Range		400 - 490	°F
Mold Temperature Range		135 - 180	°F
Mold Shrinkage Rate	ASTM D955	0.005 - 0.006	in/in
Pre-Drying Conditions		4 hrs @ 165°F	

The information provided above is based on laboratory testing using test methods indicated and is believed to represent nominal results of those tests. Because conditions under which this material may be processed, tested or used cannot be anticipated, no warranty is given, either expressed or implied, as to the accuracy or reproducibility of this information or for the fitness of this material for any particular use. This material is sold with the express understanding that purchasers, processors or other users of this material have sole responsibility, through performance of their own testing, to determine the suitability of this material for any particular use.