



The strength of chemicals.

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Technical Data Sheet

Preliminary

Material: Ecomass® Compound 1002ZC85

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

Description / Features: Stainless Steel Powder Filled Co-Polyamide (COPA), Excellent Toughness

Processing Method: Extrusion

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Density		3.75	g/cc
Mechanical Properties			
Tensile Strength	ISO 527	9	Mpa
Tensile Modulus	ISO 527	NA	MPa
Tensile Elongation at Break	ISO 527	500	%
Flexural Modulus	ISO 178	200	Mpa
Flexural Strength	ISO 178	NA	MPa
Izod Impact Strength, notched	ISO 180/A	NB	J/m
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	NA	°C
Heat Deflection Temperature at 264 psi	ASTM D648	NA	°C
Electrical Properties			
Surface Resistivity		NA	ohms/sq
Processing Information			
Melt Temperature Range		200 - 230	°C
Pre-Drying Conditions		2 - 4 hours @ 70	°C

NA Not Available
NB No Break

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.

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