



Technical Data Sheet

4101 Parkstone Heights Drive, Suite 380
Austin, Texas 78746-7482
512-306-0020

Preliminary

Material: Ecomass® Compound 1080ZC86

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

Description / Features: Stainless Steel Powder Filled Polyamide Alloy, Very Good Toughness

Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	Internal	4.00	

Mechanical Properties			
Tensile Strength	ISO 527	28	Mpa
Tensile Modulus	ISO 527	7000	Mpa
Tensile Elongation at Break	ISO 527	2.0	%
Flexural Modulus	ISO 178	6000	Mpa
Izod Impact Strength, notched	ISO 180/A	6.0	KJ/m

Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	N/A	°C
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°C

Electrical Properties			
Surface Resistivity		N/A	ohms/sq

Processing Information			
Melt Temperature Range		230 - 250	°C
Mold Temperature Range		65 - 80	°C
Mold Shrinkage Rate	Internal	0.008 - 0.010	mm/mm
Pre-Drying Conditions		4 - 6 hrs @ 80°C, target moisture < 0.20%	

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.

Ecomass® Compounds are manufactured by Americhem® under license from Ecomass Technologies.

Ecomass® is a registered trademark