



The strength of chemicals.

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# Technical Data Sheet

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
<b>Physical Properties</b>			
Product Form		Pellets	
Specific Gravity	Internal	4.00	
<b>Mechanical Properties</b>			
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
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	N/A	°C
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°C
<b>Electrical Properties</b>			
Surface Resistivity		N/A	ohms/sq
<b>Processing Information</b>			
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%	

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