



# Technical Data Sheet

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**Material:** Ecomass® Compound 1950ZC84

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

**Description / Features:** Stainless Steel Powder Filled Polyamide (PA6/10), Very Good Toughness

**Processing Method:** Injection Molding

Physical Properties					
Test Method	English		SI		
	Value	Units	Value	Units	
<b>Physical Properties</b>					
Product Form	Pellets		Pellets		
Density	Internal	3.80	g/cc	3.80	g/cc
<b>Mechanical Properties</b>					
Tensile Strength	ISO 527	3,915	psi	27	MPa
Tensile Modulus	ISO 527	1,099,535	psi	7583	MPa
Tensile Elongation at Break	ISO 527	1	%	1	%
Flexural Modulus	ISO 178	906,250	psi	6250	MPa
Izod Impact Strength, notched	ISO 180/A	0.877	ft-lb/in	5.7	KJ/m
<b>Processing Information</b>					
Melt Temperature Range		445 - 480	°F	230 - 250	°C
Mold Temperature Range		150 - 175	°F	65 - 80	°C
Mold Shrinkage Rate	Internal	0.010 - 0.012	in/in	1.0 - 1.2	%
Pre-Drying Conditions	target moisture < 0.20%	4 - 6 hrs @ 175 °F		4 - 6 hrs @ 80°C	

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