



Technical Data Sheet

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Material: Ecomass® Compound 1850ZC84

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

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

Processing Method: Injection Molding

Physical Properties					
	Test Method	English		SI	
		Value	Units	Value	Units
Physical Properties					
Product Form		Pellets		Pellets	
Density	Internal	4.00	g/cc	4.00	g/cc
Mechanical Properties					
Tensile Strength	ISO 527	3,625	psi	25	MPa
Tensile Modulus	ISO 527	1,087,500	psi	7500	MPa
Tensile Elongation at Break	ISO 527	0.5	%	0.5	%
Flexural Modulus	ISO 178	899,000	psi	6200	MPa
Izod Impact Strength, notched	ISO 180/A	0.769	ft-lb/in	5.0	KJ/m
Processing Information					
Melt Temperature Range		490 - 550	°F	255 - 290	°C
Mold Temperature Range		150 - 180	°F	65 - 85	°C
Mold Shrinkage Rate	Internal	0.007 - 0.009	in/in	0.7 - 0.9	%
Pre-Drying Conditions	target moisture < 0.20%	4 - 6 hrs @ 175°F		4 - 6 hrs @ 80°C	

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