



Technical Data Sheet

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Material: Ecomass Compound 1850ZN84T1

Nontoxic alternative to Lead (Pb) for weighting and balancing applications

Description / Features: Iron Powder Filled Polyamide (PA6), Impact Modified, Very 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	2.5	%	2.5	%
Flexural Modulus	ISO 178	870,000	psi	6000	MPa
Izod Impact Strength, notched	ISO 180/A	1.37	ft-lb/in	7.6	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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