



Technical Data Sheet

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Preliminary

Material: Ecomass® Compound 1850ZN66T1
Nontoxic compound for weighting and balancing applications

Description / Features: Steel Powder Filled Polyamide 6 (PA6), Impact Modified
Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	Internal	2.50	--
Mechanical Properties			
Tensile Strength	ISO 527	31.0	MPa
Tensile Elongation at Break	ISO 527	10.0	%
Flexural Modulus	ISO 178	2800	MPa
Izod Impact Strength, notched	ISO 180/A	7.5	KJ/m
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	150	°C
Heat Deflection Temperature at 264 psi	ASTM D648	50	°C
Electrical Properties			
Surface Resistivity		N/A	ohms/sq
Processing Information			
Melt Temperature Range		230 - 260	°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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