

**Ecomass® 1850ZN84T1**

Ecomass Technologies - Polyamide 6

**General Information**
**Product Description**

Ecomass® Compound 1850ZN84T1. Nontoxic compound for weighting and balancing applications.

Features: Iron Powder Filled Polyamide 6 (PA6), Impact Modified, Very Good Toughness

**General**

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Iron
Additive	• Impact Modifier
Features	• Good Toughness • Impact Modified • Non-Toxic
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	4.01		Internal Method
Molding Shrinkage - Flow	7.0E-3 to 9.0E-3	in/in	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.09E+6	psi	ISO 527-1
Tensile Stress	3630	psi	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	870000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	3.6	ft-lb/in <sup>2</sup>	ISO 180/A

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	< 0.20	%
Processing (Melt) Temp	491 to 554	°F
Mold Temperature	149 to 176	°F

