

Ecomass® 1850ZN66T1

Ecomass Technologies - Polyamide 6

General Information
Product Description

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

Features: Steel Powder Filled Polyamide 6 (PA6), Impact Modified.

General

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

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density	2.50	g/cm ³	Internal Method
Molding Shrinkage - Flow	8.0E-5 to 1.0E-4	in/in	Internal Method
Mechanical			
Tensile Stress	4500	psi	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	406000	psi	ISO 178
Impact			
Notched Izod Impact Strength	3.6	ft·lb/in ²	ISO 180/A
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	302	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	122	°F	ISO 75-2/A

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	176	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	< 0.20	%
Processing (Melt) Temp	446 to 500	°F
Mold Temperature	149 to 176	°F

