

Ecomass® 1850ZC84

Ecomass Technologies - Polyamide 6

General Information
Product Description

Ecomass® Compound 1850ZC84. Nontoxic alternative to Lead (Pb) for weighting and balancing applications.

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

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Stainless Steel Powder
Features	• Good Toughness • Non-Toxic
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	4.00	g/cm ³	Internal Method
Molding Shrinkage	0.70 to 0.90	%	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)	0.50	%	ISO 527-2
Flexural Modulus	899000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	2.4	ft·lb/in ²	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 185	°F

