

**Ecomass® 4301ZC82**

Ecomass Technologies - Polyphthalamide

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

Ecomass® Compound 4301ZC82. Nontoxic alternative to Lead (Pb), weighting and balancing applications.

Features: Stainless Steel Powder Filled Polyphthalamide (PPA), 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 <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	3.80	g/cm <sup>3</sup>	Internal Method
Molding Shrinkage	0.30 to 0.50	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.79E+6	psi	ISO 527-1
Tensile Stress	7540	psi	ISO 527-2
Tensile Strain (Break)	0.60	%	ISO 527-2
Flexural Modulus	1.47E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	2.9	ft·lb/in <sup>2</sup>	ISO 180/A

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0 to 8.0	hr
Suggested Max Moisture	< 0.045	%
Processing (Melt) Temp	590 to 626	°F
Mold Temperature	266 to 284	°F

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
