

**Ecomass® 4150CO92**

Ecomass Technologies - Polyphenylene Sulfide

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

Ecomass® Compound 4150CO92. Nontoxic alternative to Lead (Pb), weighting and balancing applications.

Features: Moderate Specific Gravity, Copper Powder Filled Polyphenylene Sulfide (PPS).

**General**

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Copper
Features	• Medium Density • Non-Toxic
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	6.00		ASTM D792
Molding Shrinkage - Flow	8.0E-3 to 0.010	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	500000	psi	ASTM D638
Tensile Strength	5000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	6000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.90	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	275	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	260	°F	ASTM D648

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	275	°F
Drying Time	4.0	hr
Processing (Melt) Temp	600 to 650	°F
Mold Temperature	275 to 300	°F

