

**Ecomass® 1700C093 Copper Powder Filled Polyamide, Injection Molding**

Category : Polymer , Thermoplastic , Nylon

**Material Notes:**

High Specific Gravity, Copper Powder Filled Polyamide (PA), Rigid, Product Form - Pellets Processing Method: Injection Molding Nontoxic alternative to Lead, weighting and balancing applications Information provided by Technical Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ecomass-1700C093-Copper-Powder-Filled-Polyamide-Injection-Molding.php](http://www.lookpolymers.com/polymer_Ecomass-1700C093-Copper-Powder-Filled-Polyamide-Injection-Molding.php)

Physical Properties	Metric	English	Comments
Specific Gravity	5.70 g/cc	5.70 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	>= 1.0 %	>= 1.0 %	ASTM D638
Tensile Modulus	9.65 GPa	1400 ksi	ASTM D638
Flexural Strength	65.5 MPa	9500 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	0.667 J/cm	1.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	159 °C	318 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	0.21 ohm	0.21 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 254 °C	400 - 490 °F	
Mold Temperature	57.2 - 82.2 °C	135 - 180 °F	
Drying Temperature	73.9 °C	165 °F	
Dry Time	4 hour	4 hour	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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