

**Ecomass® 1850ZG90 Metal Filled Polyamide**

Category : Polymer , Thermoplastic , Nylon , Nylon 6

**Material Notes:**

Nontoxic alternative to Lead (Pb), weighting and balancing applications  
High Specific Gravity  
Metal Powder Filled Polyamide (PA6)  
Information provided by Technical Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ecomass-1850ZG90-Metal-Filled-Polyamide.php](http://www.lookpolymers.com/polymer_Ecomass-1850ZG90-Metal-Filled-Polyamide.php)

Physical Properties	Metric	English	Comments
Specific Gravity	6.50 g/cc	6.50 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	10.3 GPa	1500 ksi	ASTM D638
Flexural Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	121 °C	250 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.3 °C	200 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	246 - 254 °C	475 - 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	

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