

## Ecomass® 1080ZG90 Metal Filled Polyamide

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications. High Specific Gravity Metal Powder Filled Polyamide (PA) Alloy Excellent Toughness Information provided by Technical Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ecomass-1080ZG90-Metal-Filled-Polyamide.php](http://www.lookpolymers.com/polymer_Ecomass-1080ZG90-Metal-Filled-Polyamide.php)

Physical Properties	Metric	English	Comments
Specific Gravity	5.50 g/cc	5.50 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, Ultimate	41.4 MPa	6000 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Tensile Modulus	6.45 GPa	935 ksi	ASTM D638
Flexural Strength	51.7 MPa	7500 psi	ASTM D790
Flexural Modulus	6.65 GPa	965 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 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)	107 °C	225 °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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