

## Ecomass® 1080ZD93 Tungsten Powder Filled Polyamide Alloy, Injection Molding Grade

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ecomass-1080ZD93-Tungsten-Powder-Filled-Polyamide-Alloy-Injection-Molding-Grade.php](http://www.lookpolymers.com/polymer_Ecomass-1080ZD93-Tungsten-Powder-Filled-Polyamide-Alloy-Injection-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	8.50 g/cc	8.50 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	37.2 MPa	5400 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Tensile Modulus	6.58 GPa	955 ksi	ASTM D638
Flexural Strength	49.6 MPa	7200 psi	ASTM D790
Flexural Modulus	4.65 GPa	675 ksi	ASTM D790
Izod Impact, Notched	1.47 J/cm	2.75 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	0.24 ohm	0.24 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			

Processing Properties	73.9 °C Metric	165 °F English	Comments
Dry Time	4 hour	4 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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