

Ecomass® 1080TU96 Tungsten Filled Polyamide

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications. High Specific Gravity Tungsten 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-1080TU96-Tungsten-Filled-Polyamide.php

Physical Properties	Metric	English	Comments
Specific Gravity	11.0 g/cc	11.0 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	34.84 MPa	5053 psi	ASTM D638
Elongation at Break	3.4 %	3.4 %	ASTM D638
Tensile Modulus	6.45 GPa	935 ksi	ASTM D638
Flexural Strength	49.0 MPa	7100 psi	ASTM D790
Flexural Modulus	6.4088 GPa	929.52 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm	2.70 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	

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