

Ecomass® 4703TU95 Tungsten Filled Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications
 High Specific Gravity
 Tungsten Powder Filled Polyurethane (TPU)
 Flexible
 Information provided by Technical Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ecomass-4703TU95-Tungsten-Filled-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	11.0 g/cc	11.0 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	11.9 MPa	1730 psi	ASTM D638
Elongation at Break	12 %	12 %	ASTM D638
Tensile Modulus	0.668 GPa	96.9 ksi	ASTM D638
Flexural Strength	23.1 MPa	3350 psi	ASTM D790
Flexural Modulus	0.800 GPa	116 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	0.20 ohm	0.20 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 221 °C	400 - 430 °F	
Mold Temperature	10.0 - 26.7 °C	50.0 - 80.0 °F	
Drying Temperature	93.3 °C	200 °F	then reduce to 160°F
Dry Time	2 hour	2 hour	

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