

Ecomass® 3608TU96 Tungsten Filled Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ecomass-3608TU96-Tungsten-Filled-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	11.0 g/cc	11.0 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	5.78 MPa	839 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Tensile Modulus	2.348 GPa	340.6 ksi	ASTM D638
Flexural Strength	14.2 MPa	2060 psi	ASTM D790
Flexural Modulus	1.97 GPa	286 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.7 °C	170 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.6 °C	150 °F	ASTM D648

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

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 227 °C	350 - 440 °F	
Mold Temperature	21.1 - 65.6 °C	70.0 - 150 °F	

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