

Ecomass® 3800ZD82 Tungsten Filled Polymethylpentene

Category : Polymer , Thermoplastic , Polymethylpentene (PMP)

Material Notes:

Nontoxic alternative to Lead (Pb), radiation shielding applications Moderate Specific Gravity Tungsten Powder Filled Polymethylpentene (TPX) Rigid Information provided by Technical Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ecomass-3800ZD82-Tungsten-Filled-Polymethylpentene.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.90 g/cc	3.90 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	16.63 MPa	2412 psi	ASTM D638
Elongation at Break	<= 1.0 %	<= 1.0 %	ASTM D638
Tensile Modulus	3.17 GPa	460 ksi	ASTM D638
Flexural Strength	14.5 MPa	2100 psi	ASTM D790
Flexural Modulus	2.217 GPa	321.6 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	91.7 °C	197 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	94.4 °C	202 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	274 - 302 °C	525 - 575 °F	
Mold Temperature	57.2 - 82.2 °C	135 - 180 °F	

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