

Ecomass® 1005TU96

Ecomass Technologies - Polyether Block Amide

General Information

Product Description

Ecomass® Compound 1005TU96. Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications.

Features: High Specific Gravity, Tungsten Powder Filled PEBA, Excellent Toughness

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Tungsten
Features	• High Specific Gravity • High Toughness • Non-Toxic
Uses	• Radiation Shielding
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	11.0		ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	650000	psi	ASTM D638
Tensile Strength	2750	psi	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	450000	psi	ASTM D790
Flexural Strength	8990	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	126	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	0.20	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167	°F
Drying Time	4.0	hr
Processing (Melt) Temp	446 to 500	°F
Mold Temperature	149 to 176	°F

