Ecomass® 1002TU96

Ecomass Technologies - *Polyether Block Amide*

General Information

Product Description

Ecomass® Compound 1002TU96. Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications

Features: High Specific Gravity, Tungsten Powder Filled Polyether Block Amide (PEBA).

General		
Material Status	• Commercial: Active	
Availability	• Europe	• North America
Filler / Reinforcement	• Tungsten	
Features	• High Specific Gravity	• 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	300000	psi	ASTM D638
Tensile Strength	2750	psi	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	110000	psi	ASTM D790
Flexural Strength	4930	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	5.0	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