Ecomass® 4150TU96

Ecomass Technologies - *Polyphenylene Sulfide*

General Information

Product Description

Ecomass® Compound 4150TU96. Nontoxic alternative to Lead (Pb), radiation shielding, weighting, and balancing applications.

Features: High Specific Gravity, Tungsten Powder Filled Polyphenylene Sulfide (PPS).

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	11.0		ASTM D792
Molding Shrinkage - Flow	8.0E-3 to 0.010	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.40E+6	psi	ASTM D638
Tensile Strength	6530	psi	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	1.22E+6	psi	ASTM D790
Flexural Strength	9140	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	1.0	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	392	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	221	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0	hr
Processing (Melt) Temp	599 to 653	°F
Mold Temperature	275 to 302	°F