Ecomass® 3608TU96

Ecomass Technologies - *High Density Polyethylene*

General Information

Product Description

Ecomass® Compound 3608TU96. Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications.

Features: High Specific Gravity, Tungsten Powder Filled Polyethylene (HDPE).

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	• Compression Molding	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	11.0		ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 0.010	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	341000	psi	ASTM D638
Tensile Strength	870	psi	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	286000	psi	ASTM D790
Flexural Strength	2030	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)	171	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	151	°F	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	0.20	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	347 to 437	°F
Mold Temperature	68 to 149	°F

Notes

[1] Typical properties: these are not to be construed as specifications.