



Technical Data Sheet

4101 Parkstone Heights Drive, Suite 380
Austin, Texas 78746-7482
512-306-0020

Material: Ecomass® Compound 1005TU96

Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications

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

Processing Method: Injection Molding

Physical Properties

	Test Method	Value	Units
Physical Properties			
Product Form		Pellets	
Specific Gravity	ASTM D792	11.00	
Mechanical Properties			
Tensile Strength	ASTM D638	2,750	psi
Tensile Modulus	ASTM D638	650,000	psi
Tensile Elongation at Break	ASTM D638	5	%
Flexural Modulus	ASTM D790	450,000	psi
Flexural Strength	ASTM D790	9,000	psi
Izod Impact Strength, notched	ASTM D256	2.0	ft-lb/in
Thermal Properties			
Heat Deflection Temperature at 66 psi	ASTM D648	125	°F
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°F
Electrical Properties			
Surface Resistivity	ASTM D257	0.2	ohms/sq
Processing Information			
Melt Temperature Range		450-500	°F
Mold Temperature Range		150-180	°F
Mold Shrinkage Rate	ASTM D955	0.005-0.007	in/in
Pre-Drying Conditions		4 hrs @ 165°F	

The information provided above is based on laboratory testing using test methods indicated and is believed to represent nominal results of those tests. Because conditions under which this material may be processed, tested or used cannot be anticipated, no warranty is given, either expressed or implied, as to the accuracy or reproducibility of this information or for the fitness of this material for any particular use. This material is sold with the express understanding that purchasers, processors or other users of this material have sole responsibility, through performance of their own testing, to determine the suitability of this material for any particular use.

Ecomass® Compounds are manufactured by Americhem® under license from Ecomass Technologies.

Ecomass® is a registered trademark