



Technical Data Sheet

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

Material: Ecomass® Compound 3608TU96

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

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

Processing Method: Injection Molding, Compression Molding

Physical Properties

Test Method	English		SI		
	Value	Units	Value	Units	
Physical Properties					
Product Form	Pellets		Pellets		
Density	ASTM D792	11.00	g/cc	11.00	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	839	psi	6	MPa
Tensile Modulus	ASTM D638	340,600	psi	2,349	MPa
Tensile Elongation at Break	ASTM D638	3.5	%	3.5	%
Flexural Modulus	ASTM D790	286,000	psi	1,972	MPa
Flexural Strength	ASTM D790	2,060	psi	14	MPa
Izod Impact Strength, notched	ASTM D256	1.0	ft-lb/in	53	J/m
Thermal Properties					
Heat Deflection Temperature at 66 psi	ASTM D648	170	°F	77	°C
Heat Deflection Temperature at 264 psi	ASTM D648	150	°F	66	°C
Electrical Properties					
Surface Resistivity	ASTM D257	0.2	ohms/sq	0.2	ohms/sq
Processing Information					
Melt Temperature Range		350 - 440	°F	175 - 225	°C
Mold Temperature Range		70 - 150	°F	20 - 65	°C
Mold Shrinkage Rate	ASTM D955	0.006 - 0.010	in/in	0.6 - 1.0	%
Pre-Drying Conditions		Not Required		Not Required	

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.