



**The strength of chemicals.**  
 4917 Golden Parkway, Suite 300  
 Buford, GA 30518  
 770-237-2311

# Technical Data Sheet



**Material:** Ecomass® Compound 4703ZC87  
*Nontoxic alternative to Lead (Pb), weighting and balancing applications*

**Description / Features:** Moderate Specific Gravity, Stainless Steel Filled Polyurethane (TPU)

**Processing Method:** Injection Molding

## Physical Properties

	Test Method	Value	Units
<b>Physical Properties</b>			
Product Form		Pellets	
Specific Gravity	ASTM D792	4.50	
<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638	1,235	psi
Tensile Modulus	ASTM D638	105,000	psi
Tensile Elongation at Break	ASTM D638	100	%
Flexural Modulus	ASTM D790	84,000	psi
Flexural Strength	ASTM D790	8,300	psi
Izod Impact Strength, notched	ASTM D256	6.7	ft-lb/in
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	N/A	°F
Heat Deflection Temperature at 264 psi	ASTM D648	N/A	°F
<b>Electrical Properties</b>			
Surface Resistivity	ASTM D257	N/A	ohms/sq
<b>Processing Information</b>			
Melt Temperature Range		400 - 430	°F
Mold Temperature Range		50 - 80	°F
Mold Shrinkage Rate	ASTM D955	0.006 - 0.009	in/in
Pre-Drying Conditions		2 hrs at 200°F then reduce to 160°F (do not over-dry)	

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