



# Technical Data Sheet

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

**Material:** Ecomass® Compound 4703ZD95

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

**Description / Features:** High Specific Gravity, Tungsten Powder Filled Polyurethane (TPU)

**Processing Method:** Injection Molding

## Physical Properties

	Test Method	Value	Units
<b>Physical Properties</b>			
Product Form		Pellets	
Specific Gravity	ASTM D792	10.00	

<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638	2,000	psi
Tensile Modulus	ASTM D638	96,000	psi
Tensile Elongation at Break	ASTM D638	12	%
Flexural Modulus	ASTM D790	116,000	psi
Flexural Strength	ASTM D790	3,350	psi
Izod Impact Strength, notched	ASTM D256	5.0	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	0.2	ohms/sq

<b>Processing Information</b>			
Melt Temperature Range		400 - 430	°F
Mold Temperature Range		50 -80	°F
Mold Shrinkage Rate	ASTM D955	0.003 - 0.005	in/in
Pre-Drying Conditions		2 hrs at 200°F then reduce to 160°F (do not over-dry)	

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