



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	English		SI	
		Value	Units	Value	Units
Physical Properties					
Product Form		Pellets		Pellets	
Density	ASTM D792	10.00	g/cc	10.00	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	2,000	psi	14	MPa
Tensile Modulus	ASTM D638	96,000	psi	662	MPa
Tensile Elongation at Break	ASTM D638	12	%	12	%
Flexural Modulus	ASTM D790	116,000	psi	800	MPa
Flexural Strength	ASTM D790	3,350	psi	23	MPa
Izod Impact Strength, notched	ASTM D256	5.0	ft-lb/in	267	J/m
Electrical Properties					
Surface Resistivity	ASTM D257	0.2	ohms/sq	0.2	ohms/sq
Processing Information					
Melt Temperature Range		400 - 430	°F	205 - 220	°C
Mold Temperature Range		50 -80	°F	10 - 25	°C
Mold Shrinkage Rate	ASTM D955	0.003 - 0.005	in/in	0.3 - 0.5	%
Pre-Drying Conditions	(do not over-dry)	2hrs @ 180 °F		2hrs @ 85 °C	

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