



Technical Data Sheet

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Material: Ecomass® Compound 4703ZD88

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

Description / Features: Moderate Specific Gravity, Tungsten 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	6.80	g/cc	6.80	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	2,445	psi	17	MPa
Tensile Modulus	ASTM D638	96,000	psi	662	MPa
Tensile Elongation at Break	ASTM D638	58	%	58	%
Flexural Modulus	ASTM D790	16,400	psi	113	MPa
Flexural Strength	ASTM D790	3,800	psi	26	MPa
Izod Impact Strength, notched	ASTM D256	4.5	ft-lb/in	241	J/m
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	0.004 - 0.006	in/in	0.4 - 0.6	%
Pre-Drying Conditions	(do not over-dry)	2 hrs @ 180 °F		2 hrs @ 85 °C	

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