

Technical Data Sheet

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Material: Ecomass[®] Compound 4703ZD90

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					
		English		SI	
	Test Method	Value	Units	Value	Units
Physical Properties					
Product Form		Pellets		Pellets	
Density	ASTM D792	7.90	g/cc	7.90	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	2,400	psi	17	MPa
Tensile Modulus	ASTM D638	95,000	psi	655	MPa
Tensile Elongation at Break	ASTM D638	40	%	40	%
Flexural Modulus	ASTM D790	100,000	psi	690	MPa
Flexural Strength	ASTM D790	3,000	psi	21	MPa
Izod Impact Strength, notched	ASTM D256	4	ft-lb/in	214	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	0.003 - 0.005	in/in	0.3 - 0.5	%
Pre-Drying Conditions	(do not over-dry)	2 hrs @ 180 °F		2 hrs @ 85 °C	

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