

Technical Data Sheet

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Material: Ecomass® Compound 4703ZD84

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

Description / Features:Moderate Specific Gravity, Tungsten Powder Filled Polyurethane (TPU)Processing Method:Injection Molding

Physical Properties					
		English		SI	
	Test Method	Value	Units	Value	Units
Density					
Product Form		Pellets		Pellets	
Specific Gravity	ASTM D792	5.60	g/cc	5.60	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	3,100	psi	21	MPa
Tensile Modulus	ASTM D638	90,000	psi	621	MPa
Tensile Elongation at Break	ASTM D638	59	%	59	%
Flexural Modulus	ASTM D790	14,000	psi	97	MPa
Flexural Strength	ASTM D790	8,000	psi	55	MPa
Izod Impact Strength, notched	ASTM D256	7.4	ft-lb/in	396	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	0.006 - 0.009	in/in	0.6 - 0.9	%
Pre-Drying Conditions	(do not over-dry)	2 hrs @ 180 °F		2 hrs @ 85 °C	

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