



Technical Data Sheet

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Material: Ecomass® Compound 1950TU76

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

Description / Features: Tungsten Powder Filled Polyamide (PA6/10), Very Good Toughness

Processing Method: Injection Molding

Physical Properties					
Test Method	English		SI		
	Value	Units	Value	Units	
Physical Properties					
Product Form	Pellets		Pellets		
Density	Internal	3.80	g/cc	3.80	g/cc
Mechanical Properties					
Tensile Strength	ISO 527	6,235	psi	43	MPa
Tensile Modulus	ISO 527	430,360	psi	2968	MPa
Tensile Elongation at Break	ISO 527	10.5	%	10.5	%
Flexural Modulus	ISO 178	348,000	psi	2400	MPa
Izod Impact Strength, notched	ISO 180/A	0.969	ft-lb/in	6.3	KJ/m
Processing Information					
Melt Temperature Range		445 - 480	°F	230 - 250	°C
Mold Temperature Range		150 - 175	°F	65 - 80	°C
Mold Shrinkage Rate	Internal	0.010 - 0.012	in/in	1.0 - 1.2	%
Pre-Drying Conditions	target moisture < 0.20%	4 - 6 hrs @ 175°F		4 - 6 hrs @ 80°C	

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