



Technical Data Sheet

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Material: Ecomass® Compound 1005TU96

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

Description / Features: Tungsten Powder Filled Polyether Block Amide (PEBA), Flexible, Excellent Toughness

Processing Method: Injection Molding

Physical Properties					
Test Method	English		SI		
	Value	Units	Value	Units	
Physical Properties					
Product Form	Pellets		Pellets		
Density	ASTM D792	11.00	g/cc	11.00	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	2,750	psi	19	MPa
Tensile Modulus	ASTM D638	650,000	psi	4,483	MPa
Tensile Elongation at Break	ASTM D638	5	%	5	%
Flexural Modulus	ASTM D790	450,000	psi	3,103	MPa
Flexural Strength	ASTM D790	9,000	psi	62	MPa
Izod Impact Strength, notched	ASTM D256	2	ft-lb/in	107	J/m
Thermal Properties					
Heat Deflection Temperature at 66 psi	ASTM D648	125	°F	52	°C
Electrical Properties					
Surface Resistivity	ASTM D257	0.2	ohms/sq	0.2	ohms/sq
Processing Information					
Melt Temperature Range		450-500	°F	230 - 260	°C
Mold Temperature Range		150-180	°F	65 - 80	°C
Mold Shrinkage Rate	ASTM D955	0.005-0.007	in/in	0.5-0.7	%
Pre-Drying Conditions		4 hrs @ 165°F		4 hrs @ 75°C	

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