



Technical Data Sheet

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Material: Ecomass® Compound 1700CO93

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

Description / Features: High Specific Gravity, Copper Powder Filled Polyamide (PA), Rigid

Processing Method: Injection Molding

Physical Properties				
Test Method	English		SI	
	Value	Units	Value	Units
Physical Properties				
Product Form	Pellets		Pellets	
Density	ASTM D792	5.70	g/cc	5.70 g/cc
Mechanical Properties				
Tensile Strength	ASTM D638	6,500	psi	45 MPa
Tensile Modulus	ASTM D638	1,400,000	psi	9,655 MPa
Tensile Elongation at Break	ASTM D638	< 1	%	< 1 %
Flexural Modulus	ASTM D790	1,300,000	psi	8,966 MPa
Flexural Strength	ASTM D790	9,500	psi	66 MPa
Izod Impact Strength, notched	ASTM D256	1.25	ft-lb/in	67 J/m
Thermal Properties				
Heat Deflection Temperature at 66 psi	ASTM D648	318	°F	159 °C
Heat Deflection Temperature at 264 psi	ASTM D648	311	°F	155 °C
Electrical Properties				
Surface Resistivity	ASTM D257	0.21	ohms/sq	0.21 ohms/sq
Processing Information				
Melt Temperature Range		400 - 490	°F	205 - 255 °C
Mold Temperature Range		135 - 180	°F	55 - 80 °C
Mold Shrinkage Rate	ASTM D955	0.005 - 0.006	in/in	0.5 - 0.6 %
Pre-Drying Conditions		4 hrs @ 165°F		4 hrs @ 75 °C

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