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# Technical Data Sheet

Preliminary

**Material:**  **Ecomass® Compound 1080C094**  
*Nontoxic alternative to Lead (Pb), weighting and balancing applications*

**Description / Features:** Moderate Specific Gravity, Copper Powder Filled Polyamide (PA) Alloy, Good Toughness  
**Processing Method:** Injection Molding

## Physical Properties

	Test Method	Value	Units
<b>Physical Properties</b>			
Product Form		Pellets	
Specific Gravity	ASTM D792	6.00	
<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638	4,600	psi
Tensile Modulus	ASTM D638	1,320,000	psi
Tensile Elongation at Break	ASTM D638	8	%
Flexural Modulus	ASTM D790	760,000	psi
Flexural Strength	ASTM D790	6,800	psi
Izod Impact Strength, notched	ASTM D256	1.5	ft-lb/in
<b>Thermal Properties</b>			
Heat Deflection Temperature at 66 psi	ASTM D648	275	°F
Heat Deflection Temperature at 264 psi	ASTM D648	250	°F
<b>Electrical Properties</b>			
Surface Resistivity	ASTM D257	N/A	ohms/sq
<b>Processing Information</b>			
Melt Temperature Range		400 - 490	°F
Mold Temperature Range		135 - 180	°F
Mold Shrinkage Rate	ASTM D955	0.006 - 0.009	in/in
Pre-Drying Conditions		4 hrs @ 165°F	

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