



# Technical Data Sheet

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**Material:** Ecomass® Compound 1700CO94

*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	
<b>Physical Properties</b>					
Product Form	Pellets		Pellets		
Density	ASTM D792	6.00	g/cc	6.00	g/cc
<b>Mechanical Properties</b>					
Tensile Strength	ASTM D638	6,000	psi	41	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	9,400	psi	65	MPa
Izod Impact Strength, notched	ASTM D256	1.2	ft-lb/in	64	J/m
<b>Thermal Properties</b>					
Heat Deflection Temperature at 66 psi	ASTM D648	318	°F	159	°C
Heat Deflection Temperature at 264 psi	ASTM D648	311	°F	155	°C
<b>Electrical Properties</b>					
Surface Resistivity	ASTM D257	0.21	ohms/sq	0.21	ohms/sq
<b>Processing Information</b>					
Melt Temperature Range		475 - 500	°F	245 - 260	°C
Mold Temperature Range		150 - 180	°F	65 - 85	°C
Mold Shrinkage Rate	ASTM D955	0.005 - 0.006	in/in	0.5 - 0.6	%
Pre-Drying Conditions		4-6 hrs @ 165°F		4-6 hrs @ 75 °C	

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