



# Technical Data Sheet

4101 Parkstone Heights Drive, Suite 380  
 Austin, Texas 78746-7482  
 512-306-0020

**Material:** Ecomass® Compound 1050CO94

*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	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	4,600	psi	32	MPa
Tensile Modulus	ASTM D638	1,320,000	psi	9,103	MPa
Tensile Elongation at Break	ASTM D638	1.6	%	1.6	%
Flexural Modulus	ASTM D790	767,000	psi	5,290	MPa
Flexural Strength	ASTM D790	6,800	psi	47	MPa
Izod Impact Strength, notched	ASTM D256	1.1	ft-lb/in	59	J/m
<b>Thermal Properties</b>					
Heat Deflection Temperature at 66 psi	ASTM D648	275	°F	135	°C
Heat Deflection Temperature at 264 psi	ASTM D648	250	°F	121	°C
<b>Electrical Properties</b>					
Surface Resistivity	ASTM D257	0.21	ohms/sq	0.21	ohms/sq
<b>Processing Information</b>					
Melt Temperature Range		400 - 490	°F	205 - 255	°C
Mold Temperature Range		135 - 180	°F	55 - 85	°C
Mold Shrinkage Rate	ASTM D955	0.006 - 0.009	in/in	0.6 - 0.9	%
Pre-Drying Conditions		4 hrs @ 165°F		4 hrs @ 75°C	

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