

Ecomass® 1050CO94

Polyamide 12

Ecomass Technologies

Message:

Ecomass® 1050CO94 is a Polyamide 12 (Nylon 12) material filled with copper. It is available in North America for injection molding.

Important attributes of Ecomass® 1050CO94 are:

Good Toughness

Non-Toxic

Rigid

General Information			
Filler / Reinforcement	Copper		
Features	Good Toughness		
	Medium Rigidity		
	Non-Toxic		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	5.99	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.60 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9100	MPa	ASTM D638
Tensile Strength	31.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5290	MPa	ASTM D790
Flexural Strength	46.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	135	°C	
1.8 MPa, Unannealed	121	°C	
Injection	Nominal Value	Unit	
Drying Temperature	73.9	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	204 to 254	°C	
Mold Temperature	57.2 to 82.2	°C	

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