

## Cadi 150 Copper Alloy

Category : Metal , Nonferrous Metal , Copper Alloy

### Material Notes:

A small addition of Zr to copper improves resistance to softening and resists deformation at high temperatures where normal copper would soften rapidly. Zirconium copper is used as a Class 1 electrode material to minimize sticking when resistance spot welding galvanized materials. Forms: RodBarInformation provided by Cadi Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cadi-150-Copper-Alloy.php](http://www.lookpolymers.com/polymer_Cadi-150-Copper-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	55	55	
	@Diameter 50.8 - 76.2 mm	@Diameter 2.00 - 3.00 in	
	60	60	
	@Diameter 25.4 - 50.8 mm	@Diameter 1.00 - 2.00 in	
	>= 65	>= 65	hard temper
	@Diameter <=25.4 mm	@Diameter <=1.00 in	
Tensile Strength at Break	>= 345 MPa	>= 50000 psi	
	@Thickness >=25.4 mm	@Thickness >=1.00 in	
	>= 414 MPa	>= 60000 psi	
	@Thickness <=25.4 mm	@Thickness <=1.00 in	
Tensile Strength, Yield	>= 345 MPa	>= 50000 psi	
	@Strain 0.500 %, Thickness >=25.4 mm	@Strain 0.500 %, Thickness >= 1.00 in	
	>= 414 MPa	>= 60000 psi	
	@Strain 0.500 %, Thickness <=25.4 mm	@Strain 0.500 %, Thickness <= 1.00 in	
Modulus of Elasticity	117 GPa	17000 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	366.6 W/m-K	2544 BTU-in/hr-ft <sup>2</sup> -°F	

Melting Point Thermal Properties	980.0 - 1080 °C Metric	1796 - 1976 °F English	Comments
Solidus	980.0 °C	1796 °F	
Liquidus	1080 °C	1976 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	99.85 %	99.85 %	
Zirconium, Zr	0.15 %	0.15 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 0.00000216 ohm-cm	<= 0.00000216 ohm-cm	Calculated from Min 80 %IACS, up to 3" diameter/any thickness

Processing Properties	Metric	English	Comments
Processing Temperature	649 °C	1200 °F	Brazing, <15 minutes

Descriptive Properties	Value	Comments
RMWA Class	1	

## Contact Songhan Plastic Technology Co.,Ltd.

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