

Cadi 2 MOLD-MOR™

Category : Metal , Nonferrous Metal , Beryllium Alloy , Copper Alloy

Material Notes:

A very hard heat treatable beryllium-copper alloy with moderate electrical conductivity. C17510 can be utilized when a combination of very good mechanical strength along with moderate electrical and thermal electrical conductivity are required. Forms: RodBarPlateInformation provided by Cadi Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cadi-2-MOLD-MOR.php

Physical Properties	Metric	English	Comments
Density	8.77 g/cc	0.317 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	>= 90	>= 90	Any thickness
Tensile Strength at Break	>= 607 MPa	>= 88000 psi	
	@Thickness >=50.8 mm	@Thickness >=2.00 in	
	>= 621 MPa	>= 90000 psi	
	@Thickness 25.4 - 50.8 mm	@Thickness 1.00 - 2.00 in	
	>= 648 MPa	>= 94000 psi	
	@Thickness <=25.4 mm	@Thickness <=1.00 in	
Tensile Strength, Yield	>= 607 MPa	>= 88000 psi	
	@Strain 0.500 %, Thickness >=50.8 mm	@Strain 0.500 %, Thickness >=2.00 in	
	>= 621 MPa	>= 90000 psi	
	@Strain 0.500 %, Thickness 25.4 - 50.8 mm	@Strain 0.500 %, Thickness 1.00 - 2.00 in	
	>= 648 MPa	>= 94000 psi	
	@Strain 0.500 %, Thickness <=25.4 mm	@Strain 0.500 %, Thickness <=1.00 in	
Modulus of Elasticity	131 GPa	19000 ksi	
Poissons Ratio	0.267	0.267	
Shear Modulus	51.7 GPa	7500 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	225 W/m-K	1560 BTU-in/hr-ft ² -°F	
Melting Point	1029 - 1068 °C	1885 - 1955 °F	
Solidus	1029 °C	1885 °F	
Liquidus	1068 °C	1955 °F	

Component Elements Properties	Metric	English	Comments
Beryllium, Be	0.40 %	0.40 %	
Copper, Cu	97.8 %	97.8 %	
Nickel, Ni	1.8 %	1.8 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 0.00000383 ohm-cm	<= 0.00000383 ohm-cm	Calculated from Min 45 %IACS, up to 3" diameter/any thickness

Processing Properties	Metric	English	Comments
Processing Temperature	788 °C	1450 °F	Brazing

Descriptive Properties	Value	Comments
RMWA Class	3	

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