

Eagle Brass 230 Red Brass, 1/4 Hard

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

CDA 230 is known for having an electrical conductivity of 37% IACS, red color, corrosion resistance, excellent formability and moderate strength. Typical uses include costume jewelry, eyelets, fasteners, conduit, heat exchangers, flexible metal hose, pipe, and couplings. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-230-Red-Brass-14-Hard.php

Physical Properties	Metric	English	Comments
Density	8.75 g/cc	0.316 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	42 - 57	42 - 57	Thickness > 0.020 Inch
Tensile Strength, Ultimate	303 - 372 MPa	44000 - 54000 psi	
Tensile Strength, Yield	159 - 331 MPa	23000 - 48000 psi	0.2% offset
Elongation at Break	15 - 39 %	15 - 39 %	in 2 in.
Tensile Modulus	117 GPa	17000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.7 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	10.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	159.1 W/m-K	1104 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	85 %	85 %	
Zinc, Zn	15 %	15 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000481 ohm-cm	0.00000481 ohm-cm	Annealed

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