

Eagle Brass 230 Red Brass, Extra Spring

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-Extra-Spring.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	75 - 77	75 - 77	Thickness > 0.020 Inch
Tensile Strength, Ultimate	565 - 621 MPa	82000 - 90000 psi	
Tensile Strength, Yield	503 - 552 MPa	73000 - 80000 psi	0.2% offset
Elongation at Break	>= 2.0 %	>= 2.0 %	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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