

Eagle Brass 210 Gilding Metal, Hard

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

CDA 210 is known for its resistance to corrosion. The alloy also lends itself to deep drawing such as bullet jackets and electrical applications where formability and conductivity are required. Typical uses are for architectural ornamental trim, emblems, plaques, connectors, rotor bars, AC motors, fasteners, bullet jackets, fuse caps, firing pins, and coins. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-210-Gilding-Metal-Hard.php

Physical Properties	Metric	English	Comments
Density	8.86 g/cc	0.320 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	57 - 62	57 - 62	Thickness > 0.020 Inch
Tensile Strength, Ultimate	345 - 407 MPa	50000 - 59000 psi	
Tensile Strength, Yield	338 - 400 MPa	49000 - 58000 psi	0.2% offset
Elongation at Break	2.0 - 8.0 %	2.0 - 8.0 %	in 2 in.
Tensile Modulus	117 GPa	17000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	233 W/m-K	1620 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	95 %	95 %	
Zinc, Zn	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000318 ohm-cm	0.00000318 ohm-cm	Annealed

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