

Eagle Brass 220 Commercial Bronze, Extra Hard

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

CDA 220 is known for having very good corrosion resistance, great cold workability and good hot workability for drawing, blanking, coining, stamping, piercing and punching. Typical uses include plumbing brass, small arms cartridges, cable wrap, marine hardware, flexible tube, blots, screws, wave guides costume jewelry and kick plates. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-220-Commercial-Bronze-Extra-Hard.php

Physical Properties	Metric	English	Comments
Density	8.80 g/cc	0.318 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	67 - 71	67 - 71	Thickness > 0.020 Inch
Tensile Strength, Ultimate	441 - 496 MPa	64000 - 72000 psi	
Tensile Strength, Yield	414 - 462 MPa	60000 - 67000 psi	0.2% offset
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	in 2 in.
Tensile Modulus	117 GPa	17000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	10.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	188.5 W/m-K	1308 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	90 %	90 %	
Zinc, Zn	10 %	10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000405 ohm-cm	0.00000405 ohm-cm	Annealed

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