

Eagle Brass 19210 XP-10 Copper Iron, 1/2 Hard

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

19210 has higher strengths than most copper alloys but thanks to its composition and processing it retains formability and conductivity that other copper alloys lose. Typical uses include cooling fins for radiators, connectors, terminals, IC lead frames, and heat resistant applications. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-19210-XP-10-Copper-Iron-12-Hard.php

Physical Properties	Metric	English	Comments
Density	8.94 g/cc	0.323 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	324 - 414 MPa	47000 - 60000 psi	
Tensile Strength, Yield	303 - 407 MPa	44000 - 59000 psi	0.2% offset
Elongation at Break	>= 5.0 %	>= 5.0 %	in 2 in.
Tensile Modulus	117 GPa	17000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	17.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	9.80 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	347.6 W/m-K	2412 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	99.85 %	99.85 %	
Iron, Fe	0.10 %	0.10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000198 - 0.00000223 ohm-cm	0.00000198 - 0.00000223 ohm-cm	Annealed

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