

## Eagle Brass 19210 XP-10 Copper Iron, 1/4 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-14-Hard.php](http://www.lookpolymers.com/polymer_Eagle-Brass-19210-XP-10-Copper-Iron-14-Hard.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	276 - 379 MPa	40000 - 55000 psi	
Tensile Strength, Yield	138 - 241 MPa	20000 - 35000 psi	0.2% offset
Elongation at Break	>= 20 %	>= 20 %	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 <sup>2</sup> - $^{\circ}\text{F}$	

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China