

Eagle Brass 19010 XP-150 Copper Nickel Silicon, 3/4 Hard

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

19010 is an extreme versatile high performance copper nickel silicon alloy. It has an excellent combination of strength, conductivity and formability. Typical uses include terminals, relays, connectors, sockets, clips and springs. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-19010-XP-150-Copper-Nickel-Silicon-34-Hard.php

Physical Properties	Metric	English	Comments
Density	8.91 g/cc	0.322 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	462 - 531 MPa	67000 - 77000 psi	
Tensile Strength, Yield	>= 345 MPa	>= 50000 psi	0.2% offset
Elongation at Break	>= 12 %	>= 12 %	in 2 in.
Tensile Modulus	128 GPa	18500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.7 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.30 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	257.7 W/m-K	1788 BTU-in/hr-ft ² - °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	98.5 %	98.5 %	
Nickel, Ni	1.6 %	1.6 %	
Silicon, Si	0.20 %	0.20 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000297 ohm-cm	0.00000297 ohm-cm	Annealed

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