

Eagle Brass 725 Copper Nickel Tin, Extra Hard

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Alloy C725 is a moderate strength, low conductivity alloy with excellent bare solderability and corrosion resistance. Applications include electronic parts, springs, connectors and wire wrap terminals. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-725-Copper-Nickel-Tin-Extra-Hard.php

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	70 - 80	70 - 80	Thickness > 0.020 Inch
Tensile Strength, Ultimate	552 - 655 MPa	80000 - 95000 psi	
Tensile Strength, Yield	538 - 641 MPa	78000 - 93000 psi	0.2% offset
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	in 2 in.
Tensile Modulus	138 GPa	20000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	9.20 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	53.6 W/m-K	372 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	88.2 %	88.2 %	
Nickel, Ni	9.5 %	9.5 %	
Tin, Sn	2.3 %	2.3 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000162 ohm-cm	0.0000162 ohm-cm	Annealed

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