

Eagle Brass 194 HSM® Copper, Annealed

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

High Strength Modified Copper Alloy C194 is a first generation high performance alloy used worldwide. C194 combines good electrical conductivity with high tensile strength, good solderability and plateability. Applications include connectors, semiconductor pins and leadframes, sockets and mass terminations. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-194-HSM-Copper-Annealed.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	40 - 53	40 - 53	Thickness > 0.020 Inch
Tensile Strength, Ultimate	276 - 434 MPa	40000 - 63000 psi	
Tensile Strength, Yield	110 - 407 MPa	16000 - 59000 psi	0.2% offset
Elongation at Break	10 - 36 %	10 - 36 %	in 2 in.
Tensile Modulus	121 GPa	17500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	17.6 µm/m-°C	9.80 µin/in-°F	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	259 W/m-K	1800 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	97.5 %	97.5 %	
Iron, Fe	2.35 %	2.35 %	
Phosphorous, P	0.030 %	0.030 %	
Zinc, Zn	0.12 %	0.12 %	

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

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