

Eagle Brass 151 ZHC® COPPER, Annealed

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Alloy C151 has excellent solderability, high conductivity, and good strength. C151 has superior high temperature softening resistance compared to pure copper C110. Applications can be found in high current interconnects, pin grids, welding wire, or other elevated temperature applications. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-151-ZHC-COPPER-Annealed.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	47 - 52	47 - 52	Thickness > 0.020 Inch
Tensile Strength, Ultimate	255 - 276 MPa	37000 - 40000 psi	
Tensile Strength, Yield	62.1 - 82.7 MPa	9000 - 12000 psi	0.2% offset
Elongation at Break	35 - 37 %	35 - 37 %	in 2 in.
Tensile Modulus	117 GPa	17000 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	359.7 W/m-K	2496 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	99.9 %	99.9 %	
Zirconium, Zr	0.10 %	0.10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000187 ohm-cm	0.00000187 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