

Eagle Brass 64725 MAX251C, Extra Hard

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Max 251c has an excellent balance in hardness, formability and conductivity. Typical uses include lead frames, circuit breakers, connectors, electrical springs, contact terminals, and fuse clips. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-64725-MAX251C-Extra-Hard.php

Physical Properties	Metric	English	Comments
Density	8.77 g/cc	0.317 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	634 - 738 MPa	92000 - 107000 psi	
Tensile Strength, Yield	579 - 731 MPa	84000 - 106000 psi	0.2% offset
Elongation at Break	>= 3.0 %	>= 3.0 %	in 2 in.
Tensile Modulus	131 GPa	19000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	17.1 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	9.50 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	15.91 W/m-K	110.4 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	96 %	96 %	
Nickel, Ni	2.0 %	2.0 %	
Silicon, Si	0.50 %	0.50 %	
Tin, Sn	0.50 %	0.50 %	
Zinc, Zn	1.0 %	1.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000481 ohm-cm	0.00000481 ohm-cm	Annealed

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