

Eagle Brass 70265 XP175, 1/4 Hard

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-70265-XP175-14-Hard.php

Physical Properties	Metric	English	Comments
Density	8.86 g/cc	0.320 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	621 - 724 MPa	90000 - 105000 psi	
Tensile Strength, Yield	>= 517 MPa	>= 75000 psi	0.2% offset
Elongation at Break	>= 6.0 %	>= 6.0 %	in 2 in.
Tensile Modulus	131 GPa	19000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	15.6 W/m-K	108 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	97 %	97 %	
Nickel, Ni	2.0 %	2.0 %	
Silicon, Si	0.40 %	0.40 %	
Tin, Sn	0.42 %	0.42 %	
Zinc, Zn	0.30 %	0.30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000445 ohm-cm	0.00000445 ohm-cm	Annealed

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