

Eagle Brass 70265 XP175, 1/2 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-XP175-12-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 - 758 MPa	90000 - 110000 psi	
Tensile Strength, Yield	>= 586 MPa	>= 85000 psi	0.2% offset
Elongation at Break	>= 4.0 %	>= 4.0 %	in 2 in.
Tensile Modulus	131 GPa	19000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C	10.0 µin/in-°F	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	15.6 W/m-K	108 BTU-in/hr-ft ² -°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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