

Goodfellow Phosphor Bronze

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Good Machinability. Uses include springs, clips, gauzes and architectural applications. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Phosphor-Bronze.php

Physical Properties	Metric	English	Comments
Density	8.90 g/cc	0.322 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	80 - 225	80 - 225	
Tensile Strength at Break	320 - 740 MPa	46400 - 107000 psi	
Elongation at Break	<= 60 %	<= 60 %	
Tensile Modulus	90.0 - 120 GPa	13100 - 17400 ksi	
Shear Strength	250 - 430 MPa	36300 - 62400 psi	
Izod Impact, Unnotched	0.620 J/cm	1.16 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 µm/m-°C	9.44 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	50.0 - 75.0 W/m-K	347 - 521 BTU-in/hr-ft ² -°F	
Melting Point	900 - 1050 °C	1650 - 1920 °F	
Solidus	900 °C	1650 °F	
Liquidus	1050 °C	1920 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	94 %	94 %	
Tin, Sn	6.0 %	6.0 %	

Electrical Properties	Metric	English	Comments
	0.0000110 - 0.0000160	0.0000110 - 0.0000160	Temperature Coefficient of 0.0006 to

Electrical Resistivity Electrical Properties	ohm-cm Metric	ohm-cm English	0.0007/K Comments
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