

Indium Corp. Indalloy® 255 Bi-Pb Fusible Alloy

Category : Metal , Nonferrous Metal , Bismuth Alloy , Lead Alloy , Solder/Braze Alloy

Material Notes:

General purpose fusible alloy. Poor solderability. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-255-Bi-Pb-Fusible-Alloy.php

Physical Properties	Metric	English	Comments
Density	10.44 g/cc	0.3772 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	15	15	
Tensile Strength, Ultimate	44.1 MPa	6400 psi	
Elongation at Break	37.5 %	37.5 %	

Thermal Properties	Metric	English	Comments
Heat of Fusion	20.9 J/g	8.99 BTU/lb	
Specific Heat Capacity	0.126 J/g-°C	0.0301 BTU/lb-°F	Solid
	0.155 J/g-°C	0.0370 BTU/lb-°F	Liquid
Thermal Conductivity	4.00 W/m-K @Temperature 85.0 °C	27.8 BTU-in/hr-ft ² - °F @Temperature 185 °F	
Melting Point	124 °C	255 °F	Eutectic
Solidus	124 °C	255 °F	
Liquidus	124 °C	255 °F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	55.5 %	55.5 %	
Lead, Pb	44.5 %	44.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000430 ohm-cm	0.0000430 ohm-cm	

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