

Indium Corp. Indalloy 39 Bismuth Solder Alloy

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

Material Notes:

Low temperature eutectic solder. Can be used on the same metallization as SnPb based solders. Lowest temperature solder
pastelInformation Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-39-Bismuth-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.60 g/cc	0.347 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	15.5 @Load 4.00 kg	15.5 @Load 8.82 lb	2mm ball
Tensile Strength at Break	35.9 MPa	5200 psi	
Elongation at Break	100 %	100 %	
Modulus of Elasticity	0.103 GPa	15.0 ksi	

Thermal Properties	Metric	English	Comments
Heat of Fusion	34.7 J/g	14.9 BTU/lb	
Specific Heat Capacity	0.151 J/g-°C	0.0361 BTU/lb-°F	Solid
	0.167 J/g-°C	0.0399 BTU/lb-°F	Liquid
Thermal Conductivity	13.0 W/m-K @Temperature 85.0 °C	90.2 BTU-in/hr-ft ² -°F @Temperature 185 °F	
Melting Point	96.0 °C	205 °F	Eutectic
Solidus	96.0 °C	205 °F	
Liquidus	96.0 °C	205 °F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	52 %	52 %	
Lead, Pb	30 %	30 %	
Tin, Sn	18 %	18 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000750 ohm-cm	0.0000750 ohm-cm	

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