

Indium Corp. Indalloy 281-338 Bismuth-Tin Solder Alloy

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

Material Notes:

Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-281-338-Bismuth-Tin-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.12 g/cc	0.293 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	23.5	23.5	2mm ball
	@Load 4.00 kg	@Load 8.82 lb	
Tensile Strength at Break	51.7 MPa	7500 psi	
Elongation at Break	35 %	35 %	

Thermal Properties	Metric	English	Comments
Heat of Fusion	44.4 J/g	19.1 BTU/lb	
Specific Heat Capacity	0.180 J/g-°C	0.0430 BTU/lb-°F	Solid
	0.213 J/g-°C	0.0509 BTU/lb-°F	Liquid
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft ² -°F	
	@Temperature 85.0 °C	@Temperature 185 °F	
Melting Point	138 - 170 °C	280 - 338 °F	
Solidus	138 °C	280 °F	
Liquidus	170 °C	338 °F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	40 %	40 %	
Tin, Sn	60 %	60 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000340 ohm-cm	0.0000340 ohm-cm	

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