

Indium Corp. Indalloy 140 Bismuth Solder Alloy

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

Material Notes:

Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-140-Bismuth-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.47 g/cc	0.342 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	14	14	2mm ball
	@Load 4.00 kg	@Load 8.82 lb	
Tensile Strength at Break	25.68 MPa	3725 psi	
Elongation at Break	77.5 %	77.5 %	% elongation on 5.65 (sq. root Area) gauge length

Thermal Properties	Metric	English	Comments
Heat of Fusion	36.0 J/g	15.5 BTU/lb	
Specific Heat Capacity	0.159 J/g-Â°C	0.0380 BTU/lb-Â°F	Solid
	0.188 J/g-Â°C	0.0449 BTU/lb-Â°F	Liquid
Thermal Conductivity	15.0 W/m-K	104 BTU-in/hr-ft ² -Â°F	
	@Temperature 85.0 Â°C	@Temperature 185 Â°F	
Melting Point	57.0 - 65.0 Â°C	135 - 149 Â°F	
Solidus	57.0 Â°C	135 Â°F	
Liquidus	65.0 Â°C	149 Â°F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	47.5 %	47.5 %	
Cadmium, Cd	9.5 %	9.5 %	
Indium, In	5.0 %	5.0 %	
Lead, Pb	25.4 %	25.4 %	

Component Elements Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000490 ohm-cm	0.0000490 ohm-cm	

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