

## Indium Corp. Indalloy 160-190 Fusible Bismuth 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-160-190-Fusible-Bismuth-Alloy.php](http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-160-190-Fusible-Bismuth-Alloy.php)

Physical Properties	Metric	English	Comments
Density	9.81 g/cc	0.354 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	15 @Load 4.00 kg	15 @Load 8.82 lb	2mm ball
Tensile Strength at Break	37.2 MPa	5400 psi	
Elongation at Break	135 %	135 %	% elongation on 5.65 (sq. root Area) gauge length
Shear Strength	2.07 MPa	300 psi	

Thermal Properties	Metric	English	Comments
Heat of Fusion	34.3 J/g	14.8 BTU/lb	
Specific Heat Capacity	0.146 J/g-°C	0.0349 BTU/lb-°F	Solid
Melting Point	71.0 - 88.0 °C	160 - 190 °F	
Solidus	71.0 °C	160 °F	
Liquidus	88.0 °C	190 °F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	42.5 %	42.5 %	
Cadmium, Cd	8.5 %	8.5 %	
Lead, Pb	37.7 %	37.7 %	
Tin, Sn	11.3 %	11.3 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000400 ohm-cm	0.0000400 ohm-cm	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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