

Indium Corp. Indalloy® 158 Bi-Pb-Sn-Cd Solder Alloy

Category : Metal , Nonferrous Metal , Bismuth Alloy

Material Notes:

Lowest melting point solder. Good fusible alloy used for lens blocking. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-158-Bi-Pb-Sn-Cd-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.58 g/cc	0.346 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	14.5 @Load 4.00 kg	14.5 @Load 8.82 lb	2mm ball
Tensile Strength, Ultimate	41.3 MPa	5990 psi	
Elongation at Break	120 %	120 %	% elongation on 5.65 (sq. root Area) gauge length
Shear Strength	2.10 MPa	305 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
Heat of Fusion	39.8 J/g	17.1 BTU/lb	
CTE, linear	22.0 Âµm/m-Â°C @Temperature 20.0 Â°C	12.2 Âµin/in-Â°F @Temperature 68.0 Â°F	
Specific Heat Capacity	0.146 J/g-Â°C	0.0349 BTU/lb-Â°F	Solid
	0.184 J/g-Â°C	0.0440 BTU/lb-Â°F	Liquid
Thermal Conductivity	18.0 W/m-K @Temperature 85.0 Â°C	125 BTU-in/hr-ftÂ²-Â°F @Temperature 185 Â°F	
Melting Point	70.0 Â°C	158 Â°F	Eutectic
Solidus	70.0 Â°C	158 Â°F	
Liquidus	70.0 Â°C	158 Â°F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	50 %	50 %	

Cadmium, Cd	Component Elements Properties	10 % Metric	10 % English	Comments
Lead, Pb		26.7 %	26.7 %	
Tin, Sn		13.3 %	13.3 %	

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

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