

Indium Corp. Indalloy® 159 Pb-Sn Solder Alloy

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

Material Notes:

High temp solder for BGA applications. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-159-Pb-Sn-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	10.75 g/cc	0.3884 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	10	10	
Tensile Strength, Ultimate	30.3 MPa	4390 psi	
Elongation at Break	30 %	30 %	
Modulus of Elasticity	19.0 GPa	2760 ksi	
Shear Strength	16.5 MPa	2390 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	29.0 Åµm/m-Å°C @Temperature 20.0 Å°C	16.1 Åµin/in-Å°F @Temperature 68.0 Å°F	
Thermal Conductivity	25.0 W/m-K @Temperature 85.0 Å°C	174 BTU-in/hr-ftÅ²-Å°F @Temperature 185 Å°F	
Melting Point	275 - 302 Å°C	527 - 576 Å°F	
Solidus	275 Å°C	527 Å°F	
Liquidus	302 Å°C	576 Å°F	

Component Elements Properties	Metric	English	Comments
Lead, Pb	90 %	90 %	
Tin, Sn	10 %	10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000190 ohm-cm	0.0000190 ohm-cm	

Electrical Properties	Metric	English	Comments
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