

Indium Corp. Indalloy® 182 Au-Sn Solder Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Gold Alloy , Solder/Braze Alloy

Material Notes:

Eutectic die attach and package sealing. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-182-Au-Sn-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	14.51 g/cc	0.5242 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	275.8 MPa	40000 psi	
Elongation at Break	2.0 %	2.0 %	
Modulus of Elasticity	59.1 GPa	8570 ksi	
Shear Strength	275.8 MPa	40000 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 Åµm/m-Å°C	8.89 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Specific Heat Capacity	0.150 J/g-Å°C	0.0359 BTU/lb-Å°F	Solid
Thermal Conductivity	57.0 W/m-K	396 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 85.0 Å°C	@Temperature 185 Å°F	
Melting Point	280 Å°C	536 Å°F	Eutectic
Solidus	280 Å°C	536 Å°F	
Liquidus	280 Å°C	536 Å°F	

Component Elements Properties	Metric	English	Comments
Gold, Au	80 %	80 %	
Tin, Sn	20 %	20 %	

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