

Indium Corp. Indalloy® 9 Sn-Pb-In Solder Alloy

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

Material Notes:

General purpose solder in 160°C range with good physical properties. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-9-Sn-Pb-In-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.79 g/cc	0.281 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	12	12	
	@Load 100 kg, Time 30.0 sec	@Load 220 lb, Time 0.00833 hour	
Tensile Strength, Ultimate	36.7 MPa	5320 psi	
Elongation at Break	135.5 %	135.5 %	
Shear Strength	28.9 MPa	4190 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 Åµm/m-Å°C	13.3 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Thermal Conductivity	45.0 W/m-K	312 BTU-in/hr-ft ² -Å°F	
	@Temperature 85.0 Å°C	@Temperature 185 Å°F	
Melting Point	154 - 167 Å°C	309 - 333 Å°F	
Solidus	154 Å°C	309 Å°F	
Liquidus	167 Å°C	333 Å°F	

Component Elements Properties	Metric	English	Comments
Indium, In	12 %	12 %	
Lead, Pb	18 %	18 %	
Tin, Sn	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000140 ohm-cm	0.0000140 ohm-cm	

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