

Indium Corp. Indalloy 1 Indium-Tin Solder Alloy

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

Material Notes:

Fair wettability on glass, quartz, and many ceramics. Good low temperature malleability. Compensates for some CTE mismatch. Low vapor pressure
Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-1-Indium-Tin-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.30 g/cc	0.264 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	4.5 @Load 100 kg, Time 30.0 sec	4.5 @Load 220 lb, Time 0.00833 hour	
Tensile Strength at Break	11.9 MPa	1720 psi	
Elongation at Break	83 %	83 %	
Shear Strength	11.2 MPa	1630 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	11.1 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	34.0 W/m-K @Temperature 85.0 $^{\circ}\text{C}$	236 BTU-in/hr-ft ² - $^{\circ}\text{F}$ @Temperature 185 $^{\circ}\text{F}$	
Melting Point	118 - 125 $^{\circ}\text{C}$	244 - 257 $^{\circ}\text{F}$	
Solidus	118 $^{\circ}\text{C}$	244 $^{\circ}\text{F}$	
Liquidus	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	50 %	50 %	
Tin, Sn	50 %	50 %	

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric 147 ohm-cm

English 147 ohm-cm

Comments

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