

Indium Corp. Indalloy 104 Tin-Lead Solder Alloy

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

Material Notes:

Widely used electronic solder. Good for silver metallization. Has improved strength and fatigue properties
Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-104-Tin-Lead-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.41 g/cc	0.304 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	
Shear Strength	52.0 MPa	7540 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.167 J/g- $\text{Å}^\circ\text{C}$	0.0399 BTU/lb- $\text{Å}^\circ\text{F}$	Solid
Thermal Conductivity	50.0 W/m-K @Temperature 85.0 $\text{Å}^\circ\text{C}$	347 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$ @Temperature 185 $\text{Å}^\circ\text{F}$	
Melting Point	179 $\text{Å}^\circ\text{C}$	354 $\text{Å}^\circ\text{F}$	Eutectic
Solidus	179 $\text{Å}^\circ\text{C}$	354 $\text{Å}^\circ\text{F}$	
Liquidus	179 $\text{Å}^\circ\text{C}$	354 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	36.1 %	36.1 %	
Silver, Ag	1.4 %	1.4 %	
Tin, Sn	62.5 %	62.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000145 ohm-cm	0.0000145 ohm-cm	

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