

Indium Corp. Indalloy 149 Tin-Lead Solder Alloy

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

Material Notes:

Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-149-Tin-Lead-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	10.21 g/cc	0.3689 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	11	11	
Tensile Strength at Break	33.1 MPa	4800 psi	
Elongation at Break	20 %	20 %	
Modulus of Elasticity	20.0 GPa	2900 ksi	
Shear Strength	20.7 MPa	3000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	37.0 W/m-K	257 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
	@Temperature 85.0 $\text{Å}^\circ\text{C}$	@Temperature 185 $\text{Å}^\circ\text{F}$	
Melting Point	183 - 280 $\text{Å}^\circ\text{C}$	361 - 536 $\text{Å}^\circ\text{F}$	
Solidus	183 $\text{Å}^\circ\text{C}$	361 $\text{Å}^\circ\text{F}$	
Liquidus	280 $\text{Å}^\circ\text{C}$	536 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	80 %	80 %	
Tin, Sn	20 %	20 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000198 ohm-cm	0.0000198 ohm-cm	

Electrical Properties

Metric

English

Comments

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