

Indium Corp. Indalloy 109 Tin-Lead Solder Alloy

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

Material Notes:

Good electrical grade solder
Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-109-Tin-Lead-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.50 g/cc	0.307 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	16	16	
Tensile Strength at Break	52.4 MPa	7600 psi	
Elongation at Break	40 %	40 %	
Modulus of Elasticity	30.0 GPa	4350 ksi	
Shear Strength	38.6 MPa	5600 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	13.9 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	49.0 W/m-K	340 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 - 191 $\text{Å}^\circ\text{C}$	361 - 376 $\text{Å}^\circ\text{F}$	
Solidus	183 $\text{Å}^\circ\text{C}$	361 $\text{Å}^\circ\text{F}$	
Liquidus	191 $\text{Å}^\circ\text{C}$	376 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	40 %	40 %	
Tin, Sn	60 %	60 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000150 ohm-cm	0.0000150 ohm-cm	

Electrical Properties

Metric

English

Comments

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