

Indium Corp. Indalloy 141 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-141-Tin-Lead-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.72 g/cc	0.351 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	12	12	
Tensile Strength at Break	34.5 MPa	5000 psi	
Elongation at Break	18 %	18 %	
Modulus of Elasticity	21.0 GPa	3050 ksi	
Shear Strength	27.6 MPa	4000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	26.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	14.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	41.0 W/m-K	285 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 - 257 $\text{Å}^\circ\text{C}$	361 - 495 $\text{Å}^\circ\text{F}$	
Solidus	183 $\text{Å}^\circ\text{C}$	361 $\text{Å}^\circ\text{F}$	
Liquidus	257 $\text{Å}^\circ\text{C}$	495 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	70 %	70 %	
Tin, Sn	30 %	30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000185 ohm-cm	0.0000185 ohm-cm	

Electrical Properties

Metric

English

Comments

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