

Indium Corp. Indalloy 116 Tin-Lead Solder Alloy

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

Material Notes:

General purpose solder Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-116-Tin-Lead-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.87 g/cc	0.320 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	14	14	
Tensile Strength at Break	41.4 MPa	6000 psi	
Elongation at Break	35 %	35 %	
Shear Strength	35.9 MPa	5200 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	48.0 W/m-K	333 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 - 212 $\text{Å}^\circ\text{C}$	361 - 414 $\text{Å}^\circ\text{F}$	
Solidus	183 $\text{Å}^\circ\text{C}$	361 $\text{Å}^\circ\text{F}$	
Liquidus	212 $\text{Å}^\circ\text{C}$	414 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	50 %	50 %	
Tin, Sn	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000158 ohm-cm	0.0000158 ohm-cm	

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