

Indium Corp. Indalloy® 106 (Sn63) Sn-Pb Solder Alloy

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

Material Notes:

Standard eutectic tin-lead solder with wide application. Not recommended against silver and/or gold. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-106-Sn63-Sn-Pb-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.40 g/cc	0.303 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	17	17	
Tensile Strength, Ultimate	51.7 MPa	7500 psi	
Elongation at Break	37 %	37 %	
Modulus of Elasticity	30.0 GPa	4350 ksi	
Shear Strength	42.7 MPa	6190 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
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	347 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 $\text{Å}^\circ\text{C}$	361 $\text{Å}^\circ\text{F}$	Eutectic
Solidus	183 $\text{Å}^\circ\text{C}$	361 $\text{Å}^\circ\text{F}$	
Liquidus	183 $\text{Å}^\circ\text{C}$	361 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Lead, Pb	37 %	37 %	
Tin, Sn	63 %	63 %	

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

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