

Indium Corp. Indalloy® 227 Sn-In-Ag Solder Alloy

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

Material Notes:

Pb free solder can be used as a replacement for 63Sn 37Pb, 62Sn 36Pb 2Ag and 60Sn 40Pb in that it has similar physical and mechanical properties. Not for use over 100°C due to 118°C Sn/In eutectic. Information provided by the manufacturer, Indium Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-227-Sn-In-Ag-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.25 g/cc	0.262 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	17	17	
Tensile Strength, Ultimate	46.9 MPa	6800 psi	
Elongation at Break	47 %	47 %	
Modulus of Elasticity	38.6 GPa	5600 ksi	
Shear Strength	33.1 MPa	4800 psi	Shear Bond Holding Strength

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	54.0 W/m-K	375 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	175 - 187 $\text{Å}^\circ\text{C}$	347 - 369 $\text{Å}^\circ\text{F}$	
Solidus	175 $\text{Å}^\circ\text{C}$	347 $\text{Å}^\circ\text{F}$	
Liquidus	187 $\text{Å}^\circ\text{C}$	369 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Indium, In	20 %	20 %	
Silver, Ag	2.8 %	2.8 %	
Tin, Sn	77.2 %	77.2 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000180 ohm-cm	0.0000180 ohm-cm	

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