

Indium Corp. Indalloy 12 Lead Solder Alloy

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

Material Notes:

Tin-free indium solder Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-12-Lead-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	11.0 g/cc	0.397 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	9.0	9.0	
	@Load 100 kg, Time 30.0 sec	@Load 220 lb, Time 0.00833 hour	
Tensile Strength at Break	39.5 MPa	5730 psi	
Elongation at Break	23 %	23 %	
Shear Strength	21.9 MPa	3180 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m/m}\cdot\text{C}^\circ$	15.0 $\mu\text{in/in}\cdot\text{F}^\circ$	
	@Temperature 20.0 C°	@Temperature 68.0 F°	
Thermal Conductivity	25.0 W/m-K	174 BTU-in/hr-ft ² - F°	
	@Temperature 85.0 C°	@Temperature 185 F°	
Melting Point	290 - 310 C°	554 - 590 F°	
Solidus	290 C°	554 F°	
Liquidus	310 C°	590 F°	

Component Elements Properties	Metric	English	Comments
Indium, In	5.0 %	5.0 %	
Lead, Pb	90 %	90 %	
Silver, Ag	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000310 ohm-cm	0.0000310 ohm-cm	

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