

Indium Corp. Indalloy 5 Indium-Lead-Tin Solder Alloy

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

Material Notes:

Very good resistance to alkaline corrosion
Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-5-Indium-Lead-Tin-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.42 g/cc	0.304 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	10.2 @Load 100 kg, Time 30.0 sec	10.2 @Load 220 lb, Time 0.00833 hour	
Tensile Strength at Break	36.3 MPa	5260 psi	
Elongation at Break	101 %	101 %	
Shear Strength	29.6 MPa	4300 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 Âµm/m-Â°C @Temperature 20.0 Â°C	12.8 Âµin/in-Â°F @Temperature 68.0 Â°F	
Thermal Conductivity	23.0 W/m-K @Temperature 85.0 Â°C	160 BTU-in/hr-ftÂ²-Â°F @Temperature 185 Â°F	
Melting Point	134 - 181 Â°C	273 - 358 Â°F	
Solidus	134 Â°C	273 Â°F	
Liquidus	181 Â°C	358 Â°F	

Component Elements Properties	Metric	English	Comments
Indium, In	25 %	25 %	
Lead, Pb	37.5 %	37.5 %	
Tin, Sn	37.5 %	37.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000220 ohm-cm	0.0000220 ohm-cm	

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