

Indium Corp. Indalloy 257 Bismuth Solder Alloy

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

Material Notes:

Information Provided by Indium Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Indalloy-257-Bismuth-Solder-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.69 g/cc	0.350 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.9 MPa	5060 psi	
Elongation at Break	148.6 %	148.6 %	
Modulus of Elasticity	14.3 GPa	2080 ksi	
Shear Strength	26.2 MPa	3800 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	13.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Melting Point	95.0 - 96.0 $\text{Å}^\circ\text{C}$	203 - 205 $\text{Å}^\circ\text{F}$	
Solidus	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	
Liquidus	96.0 $\text{Å}^\circ\text{C}$	205 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	52 %	52 %	
Lead, Pb	32 %	32 %	
Tin, Sn	16 %	16 %	

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