

Indium Corp. NanoFoil® NF40 Nickel and Aluminum Localized Heat Source For Bonding

Category : Metal , Nonferrous Metal

Material Notes:

Features: 40 microns thick - optimized for bonding electronics assemblies
 Minimum dimension 1.2mm x 2.0mm
 Localized heat source for bonding
 Enables high-strength, high conductivity bonds between most combinations of materials
 Flux-free process
 Pick & place ready
 Pb-free
 Composition before Reaction - Alternating layers of Ni and Al
 Composition after Reaction - Ni50Al50
 Applications: Component mounting
 High brightness LED
 Concentrated PhotoVoltaic (CPV)
 Power amplifiers
 thermal management
 Optical component attach
 Information provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-NanoFoil-NF40-Nickel-and-Aluminum-Localized-Heat-Source-For-Bonding.php

Physical Properties	Metric	English	Comments
Density	5.70 - 6.10 g/cc	0.206 - 0.220 lb/in ³	
Thickness	40.0 - 80.0 microns	1.57 - 3.15 mil	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	35.0 - 50.0 W/m-K	243 - 347 BTU-in/hr-ft ² -°F	

Descriptive Properties	Value	Comments
Autoignition Temperature	200°C	heat rate of 200°C/min
Heat of Reaction	1050 - 1250 J/g	
Maximum Reaction Temperature	1350°C - 1500°C	
Reaction Velocity	6 - 10 m/s	

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