

AIM 52In/48Sn Solder for Photonic Packaging

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

Material Notes:

Uses include:Fiber to Ferrule SolderingLaser Die AttachHermetic Packaging & SealingWetting & Sealing Laser OpticsThermal ManagementInformation provided by AIM Specialty Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AIM-52In48Sn-Solder-for-Photonic-Packaging.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 7.30 g/cc | 0.264 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------|-----------|----------|
| Tensile Strength, Ultimate | 82.0 MPa | 11900 psi | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--|--|----------|
| CTE, linear | 24.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 13.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | |
| | @Temperature 20.0 $^\circ\text{C}$ | @Temperature 68.0 $^\circ\text{F}$ | |
| Melting Point | 118 $^\circ\text{C}$ | 244 $^\circ\text{F}$ | |
| Solidus | 118 $^\circ\text{C}$ | 244 $^\circ\text{F}$ | |
| Liquidus | 118 $^\circ\text{C}$ | 244 $^\circ\text{F}$ | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Indium, In | 52 % | 52 % | |
| Tin, Sn | 48 % | 48 % | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Creep Resistance | Low | |

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