

AIM 40In/60Pb Solder for Photonic Packaging

Category : Metal , Nonferrous Metal , Lead 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-40In60Pb-Solder-for-Photonic-Packaging.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 9.31 g/cc | 0.336 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------|-----------|----------|
| Tensile Strength, Ultimate | 238 MPa | 34500 psi | |

| Thermal Properties | Metric | English | Comments |
|--------------------|---|---|----------|
| CTE, linear | 26.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 14.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ | |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Melting Point | 195 - 225 °C | 383 - 437 °F | |
| Solidus | 195 °C | 383 °F | |
| Liquidus | 225 °C | 437 °F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Indium, In | 40 % | 40 % | |
| Lead, Pb | 60 % | 60 % | |

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

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