

AIM 80Au/20Sn Solder for Photonic Packaging

Category : Metal , Nonferrous Metal , Precious Metal , Gold 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-80Au20Sn-Solder-for-Photonic-Packaging.php

Physical Properties	Metric	English	Comments
Density	14.5 g/cc	0.524 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1900 MPa	276000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.89 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	280 °C	536 °F	
Solidus	280 °C	536 °F	
Liquidus	280 °C	536 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	80 %	80 %	
Tin, Sn	20 %	20 %	

Descriptive Properties	Value	Comments
Creep Resistance	Excellent	

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