

Parker Chomerics C-Wings Heat Spreaders

Category : Other Engineering Material

Material Notes:

Description: Chomerics' family of thin heat spreaders provides a low-cost, effective means of cooling IC devices in restricted spaces where conventional heat sinks are inappropriate. T-Wing spreaders consist of 5oz. [0.007inch/0.18mm thick] flexible copper foil between electrically insulating films. High strength silicone PSA (pressure-sensitive adhesive) provides a strong bond to the component. The compliant nature of these "thermal wing" heat spreaders permits nearly 100% adhesive contact with non-flat package surfaces, optimizing thermal and mechanical performance. Features/Benefits: Component junction temperature reduction of 10-20°C is common, Easily added to existing designs to lower component temperatures and improve reliability, Custom shapes available for complex designs, Used where localized sensitivity to EMI (electromagnetic interference) exists, Low profile, and Peel and stick application. Typical Applications: Microprocessors, Memory modules, Laptop PC's and other high density, hand held portable electronics, and High speed disk drives. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-C-Wings-Heat-Spreaders.php

Physical Properties	Metric	English	Comments
Thickness	76.0 microns	2.99 mil	PSA Thickness; Visual
	1530 microns	60.2 mil	Total; ASTM D376
	1600 microns	63.0 mil	Thermal Conductor

Mechanical Properties	Metric	English	Comments
Shear Strength	0.0230 MPa	3.34 psi	Lap; ASTM D1000
	@Temperature 100 °C, Time 3600 sec	@Temperature 212 °F, Time 1.00 hour	
Peel Strength	0.414 MPa	60.0 psi	Lap; ASTM D1000
	@Temperature 25.0 °C, Time 3600 sec	@Temperature 77.0 °F, Time 1.00 hour	
Peel Strength	0.216 kN/m	1.23 pli	60 min, 100°C, ASTM B571/D2861
	0.432 kN/m	2.46 pli	1 min, 25°C, ASTM B571/D2861

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+14 ohm-cm	<= 1.00e+14 ohm-cm	ASTM D149
	9.1	9.1	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
Dielectric Strength	12.0 kV/mm	305 kV/in	ASTM D149
Dissipation Factor	0.0010 @Frequency 1.00e+6 Hz	0.0010 @Frequency 1.00e+6 Hz	Chomerics Test

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	Chomerics

Descriptive Properties	Value	Comments
Color	Tan	
Creep Adhesion	135°C, 3kPa, on aluminum, P.S.T.C. No. 7	
Pressure-Sensitive Adhesive Type	Silicone based	
Thermal Conductor	Aluminum Oxide	
Weight, oz/inch ²	0.76	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China