

Parker Chomerics T-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, Low profile [0.33mm/0.013in] allows use in limited space environments, Easy peel and stick adhesion to all surfaces, including packages with residual silicone mold release, Offers low cost cooling for many package types, Low application force (

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Thickness	25.0 microns	0.984 mil	Insulator Layer
	50.0 microns	1.97 mil	PSA Thickness; Visual
	178 microns	7.01 mil	Thermal Conductor
	330 microns	13.0 mil	Total; ASTM D374

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	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	200 kV/mm Metric	5080 kV/in English	ASTM D149 Comments
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Processing Properties	Metric	English	Comments
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Shelf Life	12.0 Month	12.0 Month	Chomerics
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Descriptive Properties	Value	Comments
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Color	Black	
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Creep Adhesion	135°C, 3kPa, on aluminum, P.S.T.C. No. 7	
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Insulator Type	Black Polyester	
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Pressure-Sensitive Adhesive Type	Silicone based	
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Thermal Conductor	Copper	
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Weight, oz/inch ²	0.039	
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