

TAT-M-SI is a thermally conductive electrically insulating silicone PSA transfer tape. Through the thermally conductive adhesive the thermal contact is highly improved even at low pressures. Convex and concave surface structures and stack up tolerances are effectively compensated. Materials with different expansion coefficients can easily be bonded. Thus the total thermal resistance is minimised. The tape works well for realizing an effective and cost efficient thermal coupling in a broad field of applications. Above all it is used in applications having little space only and where the permitted weight is limited. Using screws, springs, clips as mechanic fasteners thus becomes superfluous.



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PROPERTIES

- ☐ Low thermal resistance
- ☐ Thermal conductivity: 1.0 W/mK
- ☐ High dielectric strength
- ☐ Reliable strong adherence on uneven or hardly machineable surfaces
- ☐ Neither mixing of components nor curing processes
- ☐ Replacement of fasteners e.g. screws clips, etc.

AVAILABILITY

- ☐ Sheet 300 mm x 400 mm
- ☐ Roll 300 mm x 50 m
- ☐ Both side tacky
- ☐ Die cut parts

APPLICATION EXAMPLES

Thermal link of:

- ☐ CPUs
- ☐ RDRAM memory modules
- ☐ Flip Chips, DSPs, BGAs, PPGAs
- ☐ MOSFETs to heat sinks
- ☐ LED

For use in Power supplies / PCs / Telecom engineering / Automotive applications / LED arrays

Technical Data Sheet

PROPERTY	UNIT	TAT-M100-SI	TAT-M200-SI
MATERIAL		Ceramic filled silicone PSA adhesive	Ceramic filled silicone PSA adhesive
Colour		White	White
Thickness	mm	0.10 ± 0.01	0.20 ± 0.02
Peel Off Strength (@ 23 °C) @ Aluminum / @ Glass	N/cm	6.0 / 7.6	6.4 / 7.6
Shear Strength (@ 125 °C after 10,000 hrs.)	N/cm ²	> 200	> 200
RoHS Conformity	2015 / 863 / EU	Yes	Yes
UL Flammability	UL 94	V0	V0
THERMAL			
Thermal Conductivity	W/mK	1.0	1.0
Resistance ¹	°C-inch ² /W	0.28	0.49
ELECTRICAL			
Breakdown Voltage ² (@ Initial Thickness, 25 °C)	kV AC	2.0	5.0

Measurement technique according to: ¹ASTM D 5470, ²ASTM D 149. Typical, non-binding values. Not intended for specification purposes. Subject to technical changes. Please contact us for further information.

Shelf life adhesive: 6 months when stored in original packaging at room temperature and 50% relative humidity.

Thicknesses: 0.1 mm / 0.20 mm

All technical data and information are without warranty and believed to be reliable and accurate, corresponding to the latest state of the art. Since the products are not provided to conform with mutually agreed specifications and their use and processing are unknown we cannot guarantee results, freedom from patent infringement, or their suitability for any application. Product testing by the applicant is recommended. We reserve the right of changes.