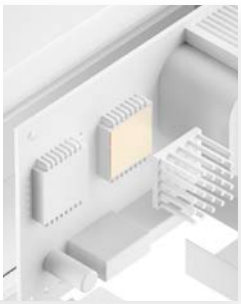
PSA TAPE TAT-I-AC-PET

with insulating film

TAT-I-AC-PET is a thermally conductive PSA transfer tape with an electrically insulating PET film-reinforcement. Through the thermally conductive adhesive coated on both sides of the copolymer 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.



PROPERTIES

- Low thermal resistance
- High dielectric strength
- Reliable strong adherence on uneven or hardly machineable surfaces
- Silicone-free
- Neither mixing of components nor curing processes
- High mechanical stability and an easy handling through PET film
- Replacement of fasteners e.g. screws, clips, etc.

AVAILABILITY

- Sheet 600 x 1050 mm
- Roll 600 mm x 20 m
- Die cut parts
- Kiss cut parts on sheet

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

PROPERTY	UNIT	TAT-I200-AC-PET	TAT-I250-AC-PET	TAT-I500-AC-PET
MATERIAL		Thermally conductive acrylate PSA tape with PET film	Thermally conductive acrylate PSA tape with PET film	Thermally conductive acrylate PSA tape with PET film
Colour		Yellowish White	Yellowish White	Yellowish White
Tape Thickness	mm	0.2	0.25	0.50
PET Liner Thickness	µm	75	75	75
Peel Off Strength (@ AL, @ RT)	N/cm	6.0	6.0	6.0
Dynamic Shear Strength (@ 305 mm/min, @ RT)	psi	34.1	34.1	34.1
UL Flammability (Equivalent)	UL 94	V0	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes	Yes
THERMAL				
Thermal Conductivity	W/mK	1.5	1.5	1.5
Resistance[1]	°C-inch²/W	0.71	0.73	0.81
Operating Temperature Range	°C	max. 80	max. 80	max. 80
ELECTRICAL				
Breakdown Voltage	kV/mm	15	15	15

Measurement technique according to: [1]ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.
Shelf life adhesive: 12 months when stored in original packaging at room temperature and 50 % relative humidity.

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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.

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