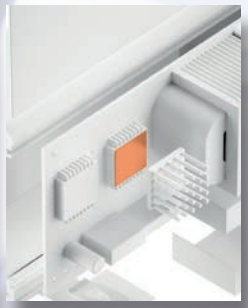
PSA INSULATING TAPE TAT-H-CO

with insulating film

TAT-H-CO is a thermally conductive PSA transfer tape with an electrically insulating copolymer 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.



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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 copolymer film
- Replacement of fasteners e.g. screws, clips, etc.

AVAILABILITY

- Sheet 360 x 300 mm
- Roll 360 mm x 33 m
- Both side tacky (TAT-H190-CO)
- Die cut parts
- Kiss cut parts on sheet

APPLICATION EXAMPLES

Thermal link of:

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

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

Property	Unit	TAT-H190-CO
Material		Thermally conductive PSA tape with copolymer film
Colour		White
Tape Thickness	mm	0.190
Liner Thickness	mm	0.075
Peel Off Strength (@ Al, @ RT)	N/cm	6.0
Overlap Shear Strength (@ RT)	MPa	9.0
Tensile Strength	MPa	ca. 6.5
Elongation	%	ca. 100
UL Flammability	UL 94	V0
RoHS Conformity	2011 / 65 / EU	Yes
Thermal		
Thermal Conductivity	W/mK	0.4
Thermal Resistance[1]	°C-inch²/W	0.78
Operating Temperature Range	°C	- 40 to + 150
Electrical		
Breakdown Voltage	kV AC	9.5
Dielectric Strength	kV / mm	53
Volume Resistivity	Ohm - cm	2.5 x 10^{13}

Test Methods: [1] ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.

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