# **KØLEPROFILER**

# **TERMISK LEDENDE MATERIALE**



# PSA INSULATING TAPE





# **PSA INSULATING TA PE TAT-J-PE**

ACRYLATE ADHESIVE WITH POLYESTER INSULATING FILM

TAT-J-PE is a thermally conductive PSA tape with an electrically insulating polyester film reinforcement. Through the thermally conductive acrylate adhesive coated on both sides of the polyester film 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 polyester film
- Replacement of fasteners e.g. screws, clips, etc.

### **AVAILABILITY**

- Sheet
- Roll 10 ~1,000 mm x 20 m
- Both side tacky (TAT-I200-PE)
- 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-J200-PE
MATERIAL		Thermally conductive acrylate PSA tape with polyester film
Colour		White
Tape Thickness	mm	0.20 ±0.03
PE Film Thickness	μm	12
Peel Off Strength (@ Stainless Steel @ RT)	N/cm	5.6
Peel Off Strength (@ Al 6063, @ RT)	N/cm	6.1
UL Flammability	UL 94	VO
RoHS Conformity	2015 / 863 / EU	Yes
THERMAL		
Thermal Conductivity	W/mK	0.7
Resistance <sup>1</sup> @ 7 PSI	°C-inch²/W	0.73
Resistance <sup>1</sup> @ 70 PSI	°C-inch²/W	0.50
Operating Temperature Range	°C	- 40 to + 125
ELECTRICAL		
Breakdown Voltage	kV AC	8.9

Measurement technique according to: 'ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.

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







# PSA TA PE TAT-M-SI

SILICONE ADHESIVE, THERMALLY CONDUCTIVE

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.

### 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
- $\cdot$  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

MATERIAL Ceramic filled silicone PSA adhesive Ceramic filled silicone PSA adhesive   Colour White White   Thickness mm 0.10 ±0.01 0.20 ±0.01	
Colour White White	
Thickness mm 0.10 <sup>±0.01</sup> 0.20 <sup>±0.01</sup>	
1111 0.10 0.20	
Peel Off Strength (@ 23 °C)     N/cm     6.0 / 7.6     6.4 / 7.6       @ Aluminum / @ Glass	
Shear Strength     N/cm²     > 200     > 200       (@ 125 °C after 10,000 hrs.)       > 200     > 200	
RoHS Conformity2015 / 863 / EUYesYes	
UL Flammability UL 94 V0 V0	
THERMAL	
Thermal Conductivity W/mK 1.0 1.0	
Resistance <sup>1</sup> °C-inch <sup>2</sup> /W 0.28 0.49	
ELECTRICAL	
Breakdown Voltage <sup>2</sup> kV AC 2.0 5.0 (@ Initial Thickness, 25 °C)	

Measurement technique according to: 'ASTM D 5470, <sup>2</sup>ASTM D 149. All data without warranty and subject to change. Please contact us for further data and 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







## VI FØRER PRODUKTER INDENFOR KATEGORIERNE:





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