

High performance interface for thermal management

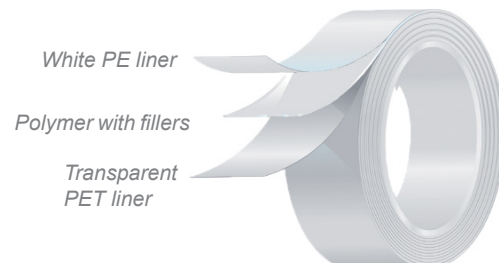
Reference: 04 HTP10500 00

Product profile

- Release liner: White PE liner siliconized on one side
- Material: Polymer with fillers
- Release liner: Transparent PET liner siliconized on one side (50 µm)

Application

With its unique and highly innovative construction, HTP10-500 product is designed for the following applications: thermal management, heat-sink thermal interface, LED lighting thermal management.



Technical properties

	Test method	Value
Thickness - without liner (µm)	-	500 (450 - 550)
Shore hardness (Shore A)	-	55
Thermal conductivity (W/m.K)	ASTM D 7984	1.60
Thermal resistance (K.cm²/W)	ASTM D 7984	3.10
Electric breakdown voltage (V)	ASTM D 149	> 10 000
Dielectric strength (V/µm)	ASTM D149	28
Dielectric constant (1000 Hz)	ASTM D150	2.6
Volume resistivity (Ω.m)	ASTM D257	10 ⁹
Flammability	UL 94	V-0
Pull strength (on aluminum, N/625 mm²)	Internal	> 150
Loop tack (N/cm)	FTM 9	0.5
Adhesion on SS (N/25 mm)	FTM 2	5
Temperature range	Internal	- 30 °C / + 120 °C

Product features

- Excellent thermal dissipation combined to excellent electrical insulation
- Easy and cost-effective application (manual or automated)
- Cost control solution for the customer (in comparison with thermal grease or liquid solutions)
- Reliable quality solution (no risk of air entrapment in comparison with grease or liquid solutions)
- Silicone free

Compression ratio	Compression force (N/6,4 cm²)
10 %	18
20 %	53
30 %	85
40 %	109
50 %	110
Sustain 50 %	101

Storage

Store in dry conditions between 10 °C and 35 °C in its original packaging.
 Use within 12 months after delivery.

- Test method: ASTM D575-91 for reference
- Specimen diameter: 28.6 mm
- Platen diameter: 28.6 mm
- Compression velocity: 5 mm /min
- Sustain 50 %: Remaining force after 1 min at 50 % compression ratio

This document does not constitute a specification. The information provided in this document is given in good faith, according to the tests made in our laboratory. The values given are typical values and may vary according to application conditions. They are given for information only and do not constitute a warranty. It is the responsibility of the purchaser to determine prior to use the suitability of this material in its application. Revised: July 17th 2024