

Description

TP-1012 is a grey color high performance thermal conduction thermal interface material used to fill air gap between the heating device and the heat sink or metal base. This silicone thermal pad is flexible, and yet provides high thermal conductivity.

Features

- Natural stickiness
- Easy assembly
- Soft and elastic
- High electrical Insulation
- High thermal conductivity

Applications

Thermal conductive interface material for electronic parts and devices.

Cured Properties	Typical Value	Unit	Test Method
Color	Grey	-	PEN 10
Density	3.50	g/cm ³	ASTM D792
Hardness, Shore OO	70	Shore	ASTM D2240
Thermal Conductivity	12.0	W/mK	ASTM D5470
Thermal resistivity	0.6	K-cm ² /W	ASTM D5470
Tensile Strength	0.06	MPa	ASTM D412
Elongation at break	40	%	ASTM D412
Dielectric Strength	≥6	kV/mm	ASTM D149
Volume resistivity	1x10 ¹³	ohm.cm	ASTM D257
Flammability	V-0	-	UL94

* PEN is referring to Penchem test method.

* The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on certificate of conformance or please contact Penchem representative.

* Specimen dimension for thermal conductivity and thermal resistance measurement is 1.0mm thickness, diameter = 3.3cm, contact pressure = 300kPa, 40°C.

Guideline of Use

1. Pick up silicone thermal pad from release film gently.
2. Make sure the surface of the substrate is clean and dried before apply the silicone thermal pad.
3. Position the silicone thermal pad to substrate.
4. Apply some pressure to ensure good contact.
5. The silicone thermal pad can be applied and removed easily (care must be taken during installation to avoid tearing and contamination).

Storage & Shelf Life

Store the silicone thermal pad in a dried place. Avoid prolong exposure to sunlight.

Shelf life: 2 years

Packaging

- Thickness range: 1.0 to 5.0 mm

Other product dimension enquiry, please contact our sales department.

Environment, Health & Safety

This product is intended for industrial use only. For more safety information, please refer to Product Safety Data Sheet (SDS).

General Information

All right reserved. This information in this document is subjected to change without notice.

Revision (00): 13-Jan-2025

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