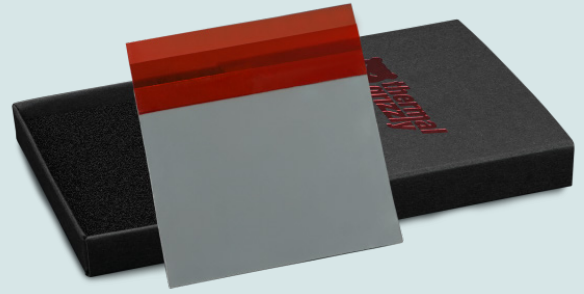


# PhaseSheet PTM



## High Performance Cooling Solutions

With the PhaseSheet PTM, Thermal Grizzly presents a new thermal pad based on a phase change material (PCM). The pads, which are solid at room temperature, can be easily applied and liquefy during operation, allowing them to effectively dissipate heat like a thermal paste. PhaseSheet PTM is electrically non-conductive and can therefore be used in many areas, with the primary application being in processors and graphics chips.

## What makes PhaseSheet PTM so special?

PhaseSheet PTM is a thermal pad that has been optimized for applications where maintenance cycles are subject to a high interval duration. It is more durable than traditional thermal conductive pastes, but not as durable as KryoSheet, for example, which is virtually maintenance-free. The maximum thermal conductivity of PhaseSheet PTM develops and stabilizes after around ten thermal cycles over 60 degrees Celsius.

The phase-change material on which the PhaseSheet PTM is based is solid at room temperature. The material only begins to liquefy at temperatures above 45 degrees Celsius. A high contact pressure of around 300-400N is required for optimum spreading of the liquid PhaseSheet PTM and thus the lowest possible layer thickness.

Compared to traditional thermal paste, PhaseSheet PTM retains a very low viscosity in its liquid state and contracts again when it changes to a solid, so that the so-called "pump-out" effect is only very slight.

## Short Information

- Outstanding thermal conductivity
- Consistently high performance
- Very long service life
- Versatile in application
- Not electrically conductive
- Easy to use

With the pump-out effect, the thermal paste is slowly pressed out between the heatspreader and the base plate of the CPU cooler, for example, because the heatspreader and the base plate deform (concave or convex) due to the temperatures under load and are returned to their original shape (straight) when they cool down.

Different materials, such as silicon and copper, have different linear expansion when heated. As a result, the pump-out effect is particularly pronounced when combining a copper cooler on a graphics chip, for example. Applications for the PhaseSheet PTM would therefore include, for example, replacing the thermal paste on older graphics cards or converting to water cooling.

## Technical data

Unit:	Value/Description:
Color:	Grey
Electrically conductive:	non-conductive
Operating temperature:	-75°C to 150°C
Typical Application:	Thermal pads for processors and graphics chips
Length:	50 mm
Width:	40 mm
Height:	0,2 mm
Package size:	21 x 15 x 1,5 cm
*Gross weight:	21 g
*Net weight:	2 g
Item number:	TG-PS-50-40
EAN-Code:	4260711991059
PU:	25 Pcs.

\*Net weight is the total weight of an article excluding the weight of packaging and accessories. The gross weight refers to the total weight of the product including accessories and packaging. Slight weight deviations are possible due to production factors.

## Scope of Delivery

- 1x PhaseSheet PTM

## Trademark Information

Thermal Grizzly is a registered trademark.

## Zur Beachtung

The data in this technical data sheet are based on our current knowledge and experience. Due to the large amount of possible factors, this should not be construed as to release the users from doing their own tests and screening. No legally binding assurance of specific properties or applicability for a concrete purpose should be derived from these data. Please consider contacting us for further detail. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.