



June 2018

New CoolFlow PCM foam: for a cooler, more comfortable sleep

The launch of our latest foam – *CoolFlow* containing PCM – is a game-changer. *CoolFlow PCM* – or Phase Change Material – is a revolutionary foam that absorbs body heat, resulting in a better, healthier night's sleep.

Why is a cooler foam important?

[Studies](#) show that as we drift off to sleep, our body temperature lowers slightly, inducing slumber. Generally, a cooler environment leads to a more comfortable sleep.

Some mattress designs tend to retain more warmth than others. This may be due to the type and combination of materials used. A warmer mattress can lead to a less restful sleep.

CoolFlow PCM absorbs heat energy to improve the thermal comfort of the foam.

How does it work?

CoolFlow PCM foam contains trillions of capsules that help absorb heat throughout the night. *CoolFlow* is designed to transition heat energy “from a solid state to a liquid state, releasing the stored heat when temperatures drop”.

The capsules help to maintain an optimal temperature and keep the foam cooler than standard grades.

A safe, versatile foam

We recommend *CoolFlow PCM* for mattresses, pillows and mattress toppers.

Other benefits of the product include:



- low VOC
- it's a renewable, bio-based product
- it's cooler to touch
- *CoolFlow PCM*'s cooling qualities last for the lifetime of the foam

Our Thermal Comparison Test Results

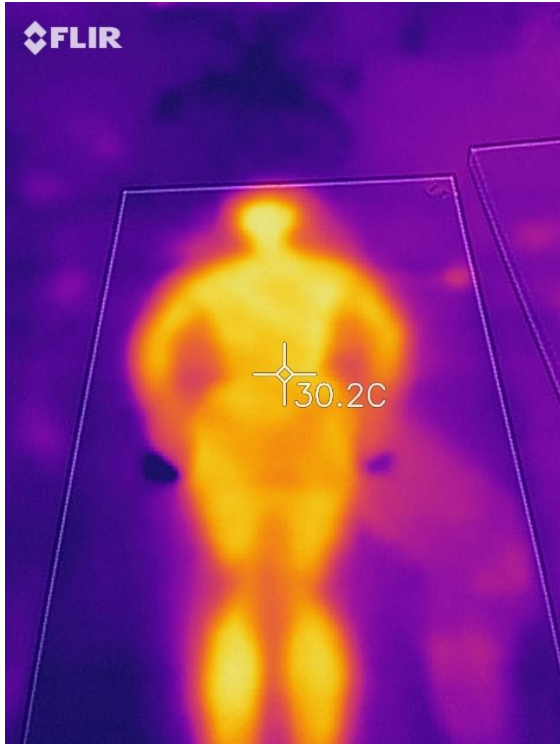
Through thermal imaging, we've demonstrated *CoolFlow PCM* foam's unique thermal management qualities.

Test #1: Full-body Temperature Test

We tested the temperature of a standard Premium Comfort foam against the *CoolFlow PCM* foam after a person had been lying down on each for 20 minutes. Both included the same grade of foam.

Our results show that *CoolFlow PCM* foam was around 5 degrees (Celsius) cooler than the standard foam.

COOLFLOW PCM MATTRESS



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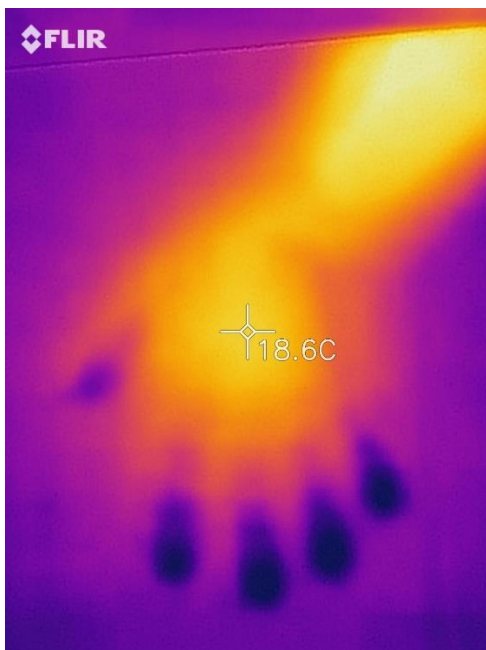


Test #2: Hand Temperature Test

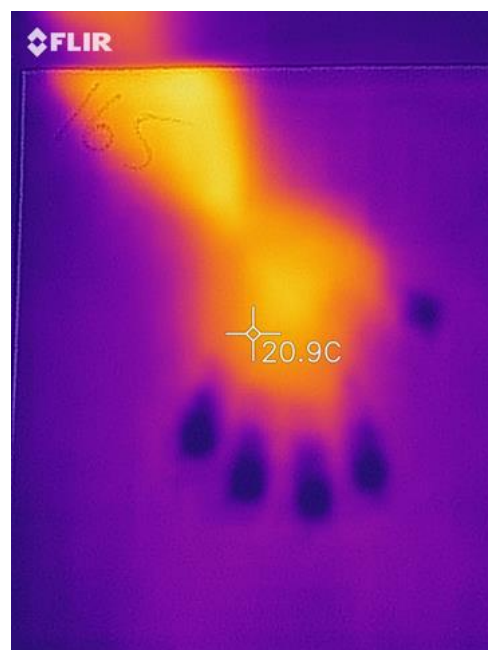
Applying standard compression to the foam using the palm of a hand, we tested the temperature of a standard Premium Comfort foam against the *CoolFlow PCM* foam. Both included the same grade of foam.

Pressure was applied for 10 minutes. We found the *CoolFlow PCM* was around 2 degrees (Celsius) cooler than the standard foam.

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For more information about using *CoolFlow PCM* in your bedding or furniture, call our Sales team on 1800 021 304, or email sales@joyce.com.au.



Company background

Joyce Foam Products has been producing foam for more than 50 years and has more than 70 grades of foam available for a wide range of consumer and industrial applications. Headquartered in the western Sydney suburb of Moorebank, it has locations in Queensland, Victoria, Western Australia and South Australia.

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