

Alexium Introduces Predictive Thermal Profile at ISPA Expo 2026

New data-driven tool empowers bedding manufacturers to model and validate cooling performance & claims before production.

GREER, SC, UNITED STATES, March 4, 2026 /EINPresswire.com/ -- Alexium International, a leader in advanced thermal management and flame-retardant solutions for the bedding industry, today announced the official launch of its Predictive Thermal Profile™ (PTP) at the International Sleep Products Association (ISPA) Expo 2026.

The Predictive Thermal Profile is a proprietary modeling program that generates theoretical cooling performance data based on selected bedding components—enabling manufacturers to better understand and compare the thermal behavior of an entire mattress system before it reaches the market.

Moving Beyond “Cool-to-the-Touch”

Traditional cooling claims in the bedding industry often rely on surface-level tests that measure only a few seconds of contact. The Predictive Thermal Profile goes deeper—analyzing the cumulative thermal performance of layered mattress constructions, including foams, fabrics, phase change materials (PCM), and flame-retardant (FR) systems.

By evaluating how components interact across a full system, the PTP provides:

- Simulated thermal performance outputs
- Comparative cooling data across builds
- Exportable reporting in spreadsheet format
- A foundation for data-backed product storytelling



ISPA EXPO
MARCH 10-12, 2026
Orlando, Florida

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Build the Coolest Bed - Alexium @ ISPA Expo



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Alexium Logo



The Predictive Thermal Profile allows brands to understand how their material selections work together—before investing in full production runs.”

Billy Blackburn, Alexium CEO

“Our goal is to give manufacturers a smarter way to validate and communicate cooling performance,” said Billy Blackburn, CEO of Alexium International. “The Predictive Thermal Profile allows brands to understand how their material selections work together—before investing in full production runs.”

Build Your Own Bed™ Experience at [ISPA Expo 2026](#)
To showcase the power of the Predictive Thermal Profile, Alexium will host an interactive Build Your Own Bed™

activation at ISPA Expo 2026 at Booth #2026.

Attendees will:

- Select from a curated range of mattress components
- Design their own custom mattress configuration
- Receive a personalized Predictive Thermal Profile report outlining the modeled cooling performance of their build

Each participant will receive a customized digital report generated in real time, offering a tangible example of how data can inform product development and merchandising decisions.

The activation underscores Alexium’s broader commitment to combining material science with applied data tools that help brands differentiate in a competitive retail environment.

A New Standard for Thermal Transparency

As retailers and consumers increasingly scrutinize cooling claims, Alexium believes predictive modeling and system-level testing will become critical to maintaining credibility and trust.

The Predictive Thermal Profile complements Alexium’s in-house thermal testing capabilities and expertise in PCM technologies, offering brands both theoretical modeling and practical validation support.

Manufacturers, retailers, and industry partners are invited to visit Alexium at ISPA Expo 2026 at Booth #2026 to experience the Predictive Thermal Profile and Build Your Own Bed™ activation firsthand.

For more information or to schedule a meeting at ISPA, contact: info@alexium.com or visit www.alexiuminternational.com.

About Alexium International

Alexium International develops and commercializes advanced material solutions, including phase change materials (PCM) for thermal regulation and next-generation flame-retardant (FR) technologies. With deep expertise in chemistry and applied performance science, Alexium

partners with global bedding and textile manufacturers to engineer safer, smarter, and higher-performing products.

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