The revolution in polyurethane foam manufacturing has begun.

Introducing KRUSADER™

A new technology of hybrid foam that brings productivity and versatility to foam plants, and comfort and performance to consumers.

Simplified Operations. Differentiated Products.

Based on a novel approach to the formulation of flexible polyurethane foam, the Krusader technology successfully addresses a key challenge of foam manufacturers today—

How to produce differentiated grades that meet the full range of requirements of mattress OEMs, while improving productivity, preventing complexity and controlling costs?

To conquer this challenge, the Krusader foam family uniquely features new blends of curatives and uses polyols with specific reactivity profiles, chosen for their effect on polymer properties, cell openness, and foam recovery.

As a result, the technology produces hybrid foam types that selectively combine properties of conventional foam and viscoelastic foam, and offers adjustable glass transition temperatures (Tg) in the final product. The approach also provides new opportunities to foam manufacturers to optimize their material usage, as well as their production lines.

Operational Advantages of Krusader.

- Fast and uniform cure.
- Formulated from readily available polyurethane raw materials.
- Flexibility in raw materials procurement strategies.
- Compatibility with both direct lay-down and trough process, with minimal urethane build-up.
- Easy production changes.

Features and Performance Attributes.

- Ability to combine the silky feel of Hypersoft foam with the pressure relief of viscoelastic foam.
- High air flow for optimal heat dissipation.
- Adjustable Tg for consistent performance regardless of the season and the environment.
- Adjustable speed of recovery.

BASF Monomers North America

Technical Service – Flexible Urethane Foam

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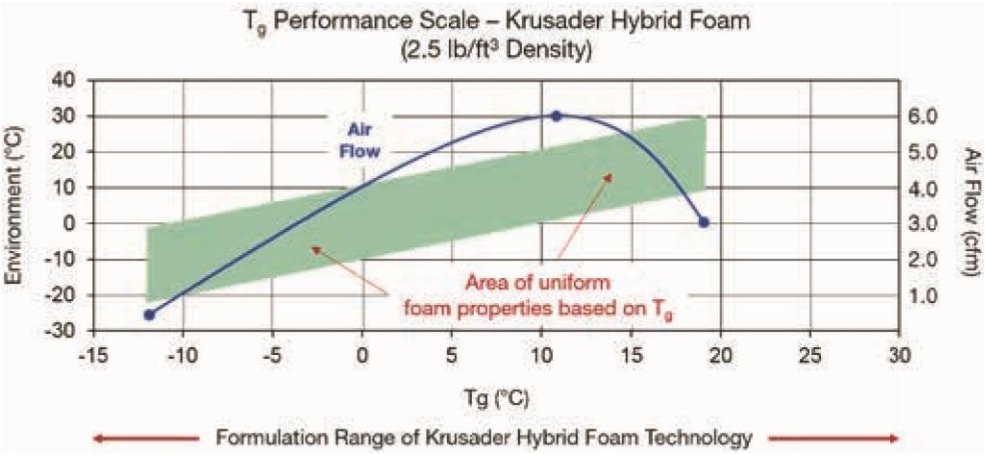
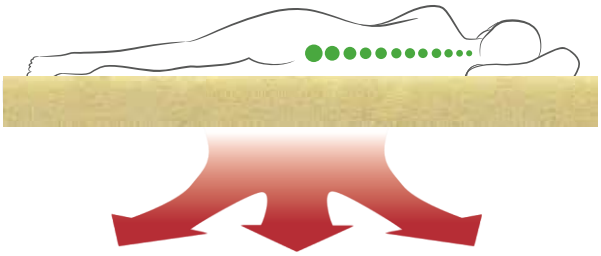


Hybrid Memory Foam with Krusader Technology.

While traditional memory foam has established itself as the material of choice for superior pressure relief, users have often expressed concerns about insufficient heat dissipation and the weight of mattresses. Because of formulations that favor low foam densities and a high degree of cell openness, Krusader technology offers new options to resolve these issues.



Specifically, increased air flow caused by open cell structures promotes active heat dissipation. In addition, lower foam densities result in lighter mattresses. Finally, because Krusader hybrid memory foam also retains the slow recovery effect that characterizes viscoelastic foam, comfort and pressure relief are maintained at an optimal level.

Comfort. Durability. Well-Being.

Hybrid foam based on Krusader technology exceeds industry standards in terms of compression set and complies with the requirements of foam certification programs for responsible use of raw materials and protection of indoor air quality. Krusader foam technology is also compatible with ELASTOPAN® HR Gel to further enhance heat dissipation.

As a major supplier of MDI, TDI and polyether polyols with over 60 years of combined experience in technical service and application development, BASF is available to help you explore the possibilities offered by Krusader. Ready to lead the charge in flexible foam innovation? Please contact us.

BASF
We create chemistry