



**AGENDA
TECHNICAL PROGRAM
Vinoy® Renaissance Hotel
St. Petersburg, Florida
May 25, 2017**

2:00 PM

Gluing and Cutting of Synthetic Foams: Innovations in the PU Industry

Presenter:

Sevki Ergun, Baumer of America

Abstract

The production of mattresses and upholstered furniture in the high-end sector as well as the fabrication of household products is strongly influenced by combinations of different materials such as viscoelastic, cold foam or fleece. A wide array of materials may be combined in high-level mattresses and upholstery. In many cases, gluing or bonding of various components is required. Not all gluing processes are the same and there are different methods that may be applied, depending on the material, its end-use and intended performance characteristics.

This presentation will describe gluing techniques such as the application of cold or warm activated, water based adhesives using roll coater technology or the application of hot-melt adhesives through a beads based application system. In addition to the aforementioned standard practices, the presentation will show the newly designed technology to allow the full surface application of polyurethane hot melt. Finally, the automated combinations of these technologies engineered by Baumer of America, including integrated cutting capability, to add manufacturing efficiency and to enhance end-product value will be explained.

2:30 PM

The Application of ViscoElastic HyperSoft Memory Foam Technology

Presenter:

T. Smiecinski, BASF

Abstract

The initial development of HyperSoft foaming was a breakaway idea many decades ago by several pioneering application scientists with minimal impact on the commercial polyurethane flexible foam industry. Taking two immiscible polyols and converting them into tangible comfort product wasn't realized until more recent times. The main driver, a novel application of HyperSoft chemistry, coupled with unique processing techniques, resulted in polyurethane foam that provided a better night sleep. Whether MDI or TDI isocyanates, these new breathable viscoelastic memory foams provide another comfort type category beyond traditional conventional and high resilient products of the day. Standard pneumatic viscoelastic foam products are limited in scope. The new HyperSoft foam method provides an expansive degree of versatility in pursuit of a more comfortable life experience. This paper will discuss HyperSoft foaming, the introduction of MDI and TDI to the viscoelastic foundation, and information insight for an array of technically sound comfort applications.

3:00 PM

Optimized Surfactant for Flame Laminated Polyether Foam

Presenter:

Gabriel Kiss, Momentive Performance Materials

Abstract

In the manufacturing of polyether flame lamination foams, additives are generally used to improve the peel strength between foam and the textile. Momentive Performance Materials Inc. (Momentive) has developed Niax*silicone L-645FL, a new silicone surfactant for polyether flame lamination foam, which can provide optimum foam stabilization and cell structure control, as well as improved flame lamination and flame retardant properties. The combination of Momentive's new flame lamination silicone stabilizer with Momentive's flame lamination additives can allow foam producers to manufacture polyether foam that has superior peel characteristics when compared to certain traditional additives.

*NiAx is a trademark of Momentive Performance Materials Inc.

3:30 PM

Break

3:45 PM

New Soy-Based Polyols, Systems and Blends for Flexible Foam Applications

Presenter:

Rick Speas, Cargill

Abstract

Natural Oil Polyols (NOPs) are not new to sustainable flexible foam applications. However, an ongoing challenge remains achieving reasonable loadings without sacrificing key physical properties. Cargill will outline our research, processes, challenges and successes surrounding our newest developments in plant-based polyols, systems and blends for the flexible foam market. With tremendous opportunities for eco-friendly polyurethane applications, Cargill's team of chemical experts is constantly developing new technologies and unique properties for foams with sustainability, cost savings and performance as the primary goals.

4:15 PM

Update: Community Awareness Program And Workbook

Presenter:

Wayne Bowman (presenter), Bowman Creative + Strategy

Abstract

In the 1990s, PFA created a Community Awareness Planner for member companies to help comply with EPA's Risk Management Plan (RMP) communications requirements. The program provided a workbook for PFA members with additional guidance for managing possible crisis communications issues. The original workbook outlined best practices for informing stakeholders including media, local residents, community officials, and others about various key issues. Since that time, new media opportunities have significantly changed communications strategies and techniques. This presentation updates community communications strategies and will provide an overview of PFA's new guidance tool.

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