

ABOVE-THE-BELT LINE MODULES AND SYSTEMS 2004



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Bayer MaterialScience



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NOVEMBER 4, 2004
THE DEARBORN INN
DEARBORN, MICHIGAN USA



Above-The-Belt Line Modules and Systems 2004 is a forum that provides a setting to help industry professionals gain a better perspective of the integration of the above-the-belt system. This forum, in one day, offers unprecedented networking and learning opportunities in a thought-provoking environment. Leading suppliers from the industry will offer their insights and exhibit their technologies.

ABOVE-THE-BELT LINE MODULES AND SYSTEMS 2004

AGENDA

PLEASE NOTE THAT CONFERENCE PROCEEDINGS WILL NOT BE AVAILABLE

7:30-

8:30 a.m. **Registration and Continental Breakfast**

8:30 a.m. **OPENING REMARKS**

Above-The-Belt Line Trends

*Dr. Joel Kopinsky, Principal
The ITB Group (U.S.A.)*

cell structure and enhanced performance of foamed TPV profiles utilizing the MuCell™ microcellular foaming technology. The resulting closed cell structure of the TPV sponge, characteristic of the microcellular foam process, leads to low water absorption similar to that of thermoset EPDM.

SEALING AND DOOR SYSTEMS

9:00 a.m.

A Smart Sealing System for a Smart Car

Meteor Sealing Systems (U.S.A.)

The BMW Mini convertible is the first of its kind and offers an integrated sunroof feature. The sealing design for this innovative approach of a soft top convertible had to be developed for a complex kinematic system.

9:30 a.m.

Microcellular Foam Extrusion of TPV Automotive Weatherseals

*Advanced Elastomer Systems (U.S.A.)
Trexel (U.S.A.)*

In the past few years there have been many successful introductions of TPVs as an integral part of body sealing systems and other weatherseal applications. This success stems from the excellent elastomeric properties offered by these materials in combination with the advantages of a thermoplastic, such as recycling and ease of processing. This presentation will focus on showing the improved

10:00 a.m. **Mid-Morning Break**

10:30 a.m.

Door System with an Integrated Frame

Brose (Germany)

Sealed door modules have become more of a standard commodity for many automakers in recent years. The next step forward in modularization of side doors is to integrate not only window regulators, latches, speakers and wire harnesses, but also the complete door inner structure including door frame, glass and sealing. This presentation will discuss the benefits of this new concept and provide an overview of design requirements and testing results.

11:00 a.m. **KEY NOTE SPEAKER**
**European Glass Run Channel Trends and
the Use of Wind Noise Transmission
Measurements to Improve Seal Designs**

Hutchinson (France)

European glass run channels have undergone a significant shift in designs over the last few years. These shifts will be highlighted together with a discussion of how wind

noise measurements can be used to improve designs. Smart strategies for improving vehicle seals will be briefly highlighted.

11:30 a.m. Lunch

GLAZING AND ROOF ADVANCEMENTS

12:30 p.m.

Automotive Roof Modules and Systems – What the Future Holds?

Mitra O'Malley, Principal, The ITB Group (U.S.A.)

This presentation will focus on the changes (content and styling) that are taking place in the roof area and the ramification of these changes on the supply base.

1:00 p.m.

Innovative Solutions and Developments for Roof Glazing

DuPont Automotive (U.S.A.)

Sunroof designs are dramatically changing and bold styling utilizing larger and more complex designs are now found in the automotive market. Larger sunroofs and new technologies aimed at enhancing occupant comfort and safety introduce new challenges in keeping the vehicle quiet, minimizing solar heating, and protecting occupants in the event of glass breakage. Innovative solutions to address these challenges and the changing needs of sunroof glass laminates will be presented.

1:30 p.m.

Utilization of Thermoplastics in Automotive Window Systems

Bayer MaterialScience (U.S.A.)

Thermoplastic materials such as polycarbonate are becoming viable alternatives/complements for the design and engineering of transparent automotive glazings. This discussion will focus on the key benefits of thermoplastic systems from an engineering and performance perspective. An overview of the current

status on abrasion resistant weatherable coatings as well as a detailed discussion on the key engineering issues including shape flexibility, stiffness, vibration, thermal expansion, and manufacturability will be provided.

2:00 p.m. Afternoon Break

2:15 p.m.

Advances in Polycarbonate Glazing for the Automotive Industry

Exatec (U.S.A.)

A newly developed polycarbonate glazing system that combines excellent weathering and scratch and abrasion resistance similar to glass will be introduced. Developments in manufacturing technologies that enable full scale industrialization of advanced polycarbonate glazing concepts and the status of polycarbonate glazing in the automotive market place will be addressed.

2:45 p.m.

Laminated Glass for Non-Windshield Applications

Saint-Gobain Sekurit (U.S.A.)

There is a growing trend to use laminated glass for applications other than windshields. Sidelite applications are establishing themselves since they provide greater safety, security and comfort. Roof system applications have now begun to grow fueled by safety concerns for vehicle occupants. The advantages and benefits of laminated glass products in new applications will be discussed and supported by references in the market. Future evolutions of laminated glass product design and recommendations for body design will also be highlighted.

3:15 p.m.

Afternoon Reception

List of Exhibitors:

Advanced Elastomer Systems

Bayer MaterialScience

Enhanced Protective Glass

Automotive Association (EPGAA)

Hutchinson

Meteor Sealing Systems

Solvay Engineered Polymers

True North Molds



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