



FOR IMMEDIATE RELEASE

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**Johnson Controls Uses MuCell® Process from Trexel on Mercedes
Benz E-Class Interior Door Panel Carriers**

Advanced MuCell® Design Strategy by Johnson Controls helps them win 2009 SPE (Central Europe) Automotive Interiors Award

Siegen, Germany – August 28, 2009 – Johnson Controls, one of the world’s leading suppliers of automotive interior systems, electronics and batteries and one of the most advanced global users of the MuCell® Microcellular Foam Process, has successfully employed the MuCell® Process in conjunction with other advanced technologies to produce the door panel carrier for the Mercedes Benz E-Class, and win the Society of Plastics Engineers (SPE - Central Europe Section) Automotive Interiors Award. The award was presented to Johnson Controls on June 15th.

Dr. Hartmut Traut, European Director for Trexel commented, “Johnson Controls’ innovation strategy was to utilize the MuCell® process to enable other technologies. The company’s ability to use the MuCell® process to take advantage of many advanced design rules proves that higher quality products have cost and weight saving potentials.”

The MuCell® Process not only allowed for significant weight-savings, as well as a thinner wall design for the door panel, but also provided improved dimensional stability while reducing cycle

times. Johnson Controls also took advantage of the low injection pressures inherent with the MuCell® Process to inject foamed material behind a PP Thin Film, all in one injection step for the production of the integrated map pocket, thereby eliminating a second processing step along with the resulting waste and trimming requirements. JCI was able to mold thinner wall sections in the map pocket, while meeting all performance specifications.

Johnson Controls was able to take advantage of several key MuCell® design rules which allow:

- a) thinner wall construction through lower resin viscosity;
- b) rib to wall ratios of 1:1 thereby reinforcing thinner wall construction without creating sink marks;
- c) elimination of the need to apply pack and hold pressure with high clamp tonnage requirement, thereby creating a friendlier environment for in-mold decorating.

With the elimination of the pack and hold phase, the MuCell® process enables a major productivity improvement related to the use of the tandem molding system, which itself represents an expensive capital investment.

The net effect of this innovation is not only a very attractive door panel, but an environmentally friendly design and process. From own studies Trexel estimates that the reduction of CO₂ emissions associated with the use of the MuCell® Process in the manufacturing of components using advanced MuCell® design principles is greater than 25%, while the ongoing weight savings from lighter weight components contributes directly to lower fuel consumption.

More About MuCell® Technology

The MuCell® Microcellular Foam technology is a complete process and equipment technology that enables the production of extremely high quality plastic parts. MuCell® Technology involves the use of precisely metered quantities of atmospheric gases (nitrogen or carbon dioxide) in any of the three most common thermoplastic conversion processes (injection molding, extrusion, blow molding) to create millions of nearly invisible microcells in the end product. The creation of these microcellular structures brings a wide array of benefits including reduced weight, reduced material usage and reduced production costs.

The MuCell® process is primarily employed in the injection molding process to produce lower cost precision parts with a consistently high quality and exceptional dimensional stability, where foaming has not historically been deployed.

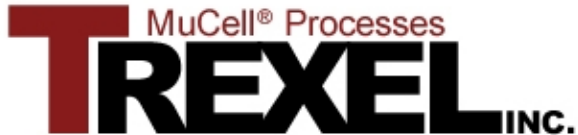
Microcellular foaming technology was originally conceptualized and invented at the Massachusetts Institute of Technology (MIT) and in 1995 Trexel was granted an exclusive worldwide license for the further development and commercialization of the technology. Today there are hundreds of MuCell® systems in operation today around the world helping to produce commercial parts, both molded and extruded. Examples of MuCell® products include electrical components, electronics connectors, internal business equipment and printer components, a variety of packaging applications and a broad array of automotive products including HVAC components and door trim and panels.

About Trexel

Trexel is the exclusive developer of the MuCell® microcellular foam technology and has an extensive portfolio of patents in the U.S., Canada, Europe, Japan, Korea, and Asia. Trexel's primary business is the supply of MuCell® Systems for the production of foamed injection molded articles. It also provides engineering support, training and other services, as well as the equipment and components integral to the MuCell® process. In support of these activities, Trexel operates a foamed plastics development laboratory in its Woburn, MA facility, and has established a global network of exclusive manufacturing relationships to produce the company's proprietary precision engineering equipment. MuCell® support centers are located in the U.S., Germany, Japan, Hong Kong, China, Singapore, Australia and Korea. For more information, please visit Trexel at www.trexel.com.

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Caption: Johnson Controls, one of the world's leading suppliers of automotive interior systems, electronics and batteries and one of the most advanced global users of the MuCell® Microcellular Foam Process, has successfully employed the MuCell® Process in conjunction with other advanced technologies to produce the door panel carrier for the Mercedes Benz E-Class, and win the Society of Plastics Engineers (SPE - Central Europe Section) Automotive Interiors Award.