

## Momentive Performance Materials' Custom Formulated Silicones Help Integrated Liner Technologies Meet Industry Needs

Momentive's Expertise in Healthcare, Environmental and Other Industries Helps Integrated Liner Technologies (ILT), Inc. Develop Next-Generation Products

Integrated Liner Technologies Inc. uses patented state-of-the-art manufacturing methods to produce a wide range of high-quality and performance cap liner (septa) products for open and closed top applications in pharmaceutical and medical diagnostics applications as well as chromatography, headspace analysis, and environmental analysis. Founded in 1993, the company is known for providing innovative solutions to application challenges including liner fall-out, contamination, outgassing, coring, sterilization, sealability, bonding without the use of adhesives, and elevated temperature applications.

ILT's success in defining new liner technologies can be attributed in large part to the custom formulated silicone materials it has developed in close collaboration with Momentive Performance Materials.



### **The Challenge: Identify the innovative materials that meet rigorous septa liner requirements**

Though largely unnoticed by end-users, cap liners play a make-or-break role in ensuring the success of many activities in chromatography such as GC, GCMS, LC, LCMS, HPLC and Headspace Analysis as well as pharmaceuticals, and environmental applications which call out EPA test method 5035. In application requirements as varied as ETO, gamma, or E-Beam sterilization for pharmaceutical applications, diagnostic, or soil testing, in the end, it is the cap liner quality, cleanliness and bonded performance that often are the determinants of a successful outcome.

"In our business, we can't be successful unless we deliver innovative products on time, that meet stringent guidelines for cleanliness, batch-to-batch appearance, as well as several other attributes," explains Mark Pizzuto, Vice President of Business Development for Integrated Liner Technologies, Inc. "Over the years,

we've developed a number of silicone/barrier film combinations. When combined with our patented INTER-SEAL processes for bonding the liner inside the cap, we achieve a distinct competitive advantage in the marketplace. However, we could never fully meet our customers' demanding requirements without the assistance of Momentive Performance Materials."

Serving a diverse set of customers, each with its own set of rigorous requirements, makes it necessary for Integrated Liner Technologies Inc. to have access to an extensive portfolio of silicone materials and the expertise to develop custom formulations that offer a complete sealing solution to their customers.

### **The Solution: Leverage custom formulated silicone materials from Momentive Performance Materials**

For Integrated Liner Technologies, the one company able to deliver the materials it needs is Momentive Performance Materials. "We've established a very

close collaborative relationship with the Momentive Performance Materials team," Pizzuto says. "Without the customized Momentive Silicones, we wouldn't be where we are today."

ILT uses a wide range of customized Momentive silicone elastomers in its products. The custom properties of these materials, in combination with Integrated Liner Technologies' patented bonding process, have enabled the company to offer a diverse product line that addresses the requirements of traceability in pharmaceuticals, self-sealing in chromatography, coring in headspace analysis, and cleanliness in environmental testing when using EPA Method 5035.

"The challenge in this market space was to design various materials with different chemistries that would meet multiple industry requirements along with meeting specific processing and bonding needs at ILT," says Tim Angle, America's marketing manager for Elastomers and RTV.



## Custom Formulated Silicones / Integrated Liner Technologies Case Study

### The Benefit: The capacity to meet the quality and volume requirements in a dynamic marketplace

"We have been able to produce excellent products using various chemistries from Momentive," Pizzuto says. Momentive Performance Material's silicone portfolio offers small lot capabilities, compression set resistance, batch-to-batch consistency, and can easily accept pigment where custom colors are required. In addition, Momentive supports ILT's strict adherence to material traceability requirements, an especially critical capability for serving the pharmaceutical industry.

For Integrated Liner Technologies, it's not only the strength of the product line and customization capabilities that make the relationship with Momentive strategically important, it is also a matter of responsiveness.

"When faced with a customer emergency, the Momentive team has been there so that we can identify and select the materials we need, when we need them," Pizzuto says. A case in point is the company's response to the dramatic spike in environmental testing that

followed the damaging hurricanes on the U.S. Gulf Coast region during 2005. Because of the increased threat of petroleum spills during the hurricanes, ILT had to rapidly ramp up its capacity for liners used in soil and water testing.

"Our ability to meet this demand was critical to our business, as well as to the environment," Pizzuto says. "The Momentive team was there when we needed them, delivering us the materials we needed to keep pace with the demand."

"Overall commitment to our customers is the way we do business at Momentive," says Eric Luftig, global healthcare marketing manager for Momentive Performance Materials. "We continue to bring the vast resources of the entire Momentive Performance Materials coupled with the personal touch from our regional custom facilities. This combination allows Momentive to address complex industry issues while providing the service our customers require."

Momentive's collaborative attitude also is visible in the strategic aspects of its relationship with ILT. According to Pizzuto, the Momentive customization capabilities at its facilities in Garrett, Ind., and Chino, CA, have proven to be a

valuable strategic resource for ILT. "The expertise of the team at these facilities has been instrumental in helping us delineate our next generation products," he says.

### Future Plans

Momentive is playing a strategic role in ILT's initiatives to expand its business model into new markets and applications.

"Silicone is at the forefront of many new and exciting applications," Pizzuto says. "With Momentive at our side, we're confident in our ability to identify and close new growth opportunities by leveraging their custom formulation capabilities and our technology and manufacturing expertise. It's a business enabler. "

Details at:  
<http://www.integratedliner.com>

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Momentive Performance Materials is a premier specialty materials company, providing high technology materials solutions to the silicones, quartz and ceramics markets. The company is a global leader with worldwide operations, a robust product portfolio, industry-leading research and development capabilities, and a long tradition of service excellence.

For further information, contact our Worldwide Hotline at 800.295.2392 in North America, +607.786.8131 everywhere else. Or visit us on the web at [www.momentive.com](http://www.momentive.com).

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