



DOW CORNING

Press Information

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Dow Corning Features at APFE 2017 Industry-Leading Portfolio of Silicone Release Coatings and PSAs for Functional Films, Specialty Tapes and Labels

New Technologies Target Sustainability, Cost Control, Next-generation Applications

SHANGHAI, CHINA – May 24, 2017 – Dow Corning, a global leader in silicones, silicon-based technology and innovation and a wholly owned subsidiary of The Dow Chemical Company, is featuring here at the International Adhesive Tape, Protective Film & Optical Film Expo (APFE) 2017 its expanding portfolio of advanced silicone release coatings and pressure-sensitive adhesives (PSAs) for high-performance release liners and protective films. These innovative silicone technologies address growing demand for pressure-sensitive materials that help to increase productivity and sustainability, lower costs and facilitate the adoption of new filmic substrates with better processing and mechanical properties vs. competitive products. They include water-based emulsion release coatings, solvent-based and solventless release coatings and platinum-cure PSAs. Dow Corning is exhibiting in booth T26, Hall 4.1.

The company's participation at APFE 2017 also includes a presentation by Nancy Zhang, Technical Application Specialist at Dow Corning, titled "Environmentally Friendly Release System for the Future – New Emulsion Release Coating Solution." Her talk will take place on May 24, from 11:40 to 12:00, in the second floor meeting room in Hall 4.1.

"Our customers face multiple challenges, such as complying with environmental regulations and reducing costs without negatively impacting quality or performance," said Frank Huo, global segment leader for PSAs at Dow Corning. "Dow Corning's release coatings and PSAs have been carefully designed to meet these challenges head on. By allowing thinner coat weights, avoiding VOC emissions, improving optical clarity and enabling fast curing at lower temperatures, these advanced silicone technologies, paired with our reliable worldwide supply, are giving customers the competitive advantage they need to succeed in the highly competitive packaging sector."

Silicone Coatings for High-performance Release Liners

Dow Corning is exhibiting several families of release coatings for demanding applications, including emerging filmic substrates. The company's solvent-based LTC Release Coating series (including LTC 759, LTC 761, LTC 310 and LTC 750A grades), for example, is designed for premium release liners in electronics applications that require optical transparency and highly stable release force. These products facilitate converting by enabling fast curing speeds at lower temperatures.

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Another solvent-based product, new *Syl-Off*® SB 9186 Release Coating, delivers both low release force and a high subsequent adhesion (SAS) while maintaining a good surface appearance. Target applications for this product are processing films, such as release liners for die-cut protective films that require low, stable release force combined with minimal impact on processing.

Dow Corning's water-based emulsion release coatings complement solventless release coatings and provide a new option for meeting environmental, health and safety regulations. These emulsion release coatings, also on display at the company's booth, combine better surface performance with lower coat weight on film substrates to deliver lower usage cost, making them ideal for new filmic substrates, such as those made from polyethylene terephthalate (PET).

Additionally, to meet growing adoption of PET substrates, new *Dow Corning*® EM-7953 Release Coating and associated new *Dow Corning*® EM-7993 Crosslinker have been developed for off-line coating of PET film liners. They address the need for greater flexibility in filmic release liner applications. This new technology provides low, stable release with lower coat weight.

Silicone Adhesives for Protective Film

Dow Corning is also featuring at APFE 2017 a comprehensive portfolio of silicone PSAs for protective films used throughout the lifecycle of electronic devices. Silicone PSAs deliver significant advantages over organic PSAs for such applications, including better wet-out and heat resistance; more-stable adhesion and anchorage over time to prevent migration; greater optical clarity (non-yellowing); cleaner removal without residues; and easier repositioning.

For instance, *Dow Corning*® 7666 Adhesive is a low-adhesion, solventless, platinum-cure PSA designed specifically for protective films used in processing and assembly of electronic devices. It offers highly stable adhesion control and cost-effectiveness, and can be used together with mid- to high-adhesion PSAs such as *Dow Corning*® 7657 and *Dow Corning*® 7667 Adhesives.

Other silicone PSA technologies, including *Dow Corning*® 7645 and *Dow Corning*® 7646 Adhesives, are designed for protective films in aftermarket electronic applications, such as screen protection for smartphones. They help to prevent damage during everyday use by consumers. These high-end materials are also being spotlighted at the Dow Corning booth.

Dow Corning technical experts are available for the duration of APFE 2017 to answer questions and discuss the company's portfolio of advanced silicone release coatings and PSAs.

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About Dow Corning

Dow Corning (dowcorning.com), a wholly owned subsidiary of The Dow Chemical Company, provides performance-enhancing solutions to serve the diverse needs of more than 25,000 customers worldwide. A global leader in **silicones**, silicon-based technology and **innovation**, Dow Corning offers more than 7,000 products and services via the company's Dow Corning® and **XIAMETER®** brands. More than half of Dow Corning's annual sales are outside the United States. Dow Corning's global operations adhere to the American Chemistry Council's Responsible Care® initiative, a stringent set of standards designed to advance the safe and secure management of chemical products and processes.

About Dow

Dow (NYSE: DOW) combines the power of science and technology to passionately innovate what is essential to human progress. The Company is driving innovations that extract value from material, polymer, chemical and biological science to help address many of the world's most challenging problems, such as the need for fresh food, safer and more sustainable transportation, clean water, energy efficiency, more durable infrastructure, and increasing agricultural productivity. Dow's integrated, market-driven portfolio delivers a broad range of technology-based products and solutions to customers in 175 countries and in high-growth sectors such as packaging, infrastructure, transportation, consumer care, electronics, and agriculture. In 2016, Dow had annual sales of \$48 billion and employed approximately 56,000 people worldwide. The Company's more than 7,000 product families are manufactured at 189 sites in 34 countries across the globe. References to "Dow" or the "Company" mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. More information about Dow can be found at www.dow.com.

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PHOTOS: Dow Corning's Leading Silicone Release Coatings and PSAs for Functional Films, Specialty Tapes and Labels

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