



DOW CORNING

Press Information

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New Dow Corning® VE-6001 UV Optical Bonding Material Introduces Expanded Design Options for More Reliable Automotive Displays

MIDLAND, Mich. – Mar. 9, 2017 – Dow Corning, a global leader in silicones and silicon-based technology and a wholly owned subsidiary of The Dow Chemical Company, today unveiled an innovative UV curable optical bonding solution engineered to enhance the reliability and performance of automotive displays. Available in Asia and Europe, New *Dow Corning*® VE-6001 UV Optical Bonding Material delivers far higher thermal stability vs. organic materials, and its one-part silicone chemistry offers simpler processing than most competitive silicones.

“As demand for more reliable automotive displays continues to accelerate, conventional display-makers and tier suppliers are challenged to adapt their designs to perform better in far harsher environmental conditions, including extreme temperatures, high humidity and prolonged UV exposure,” said Rogier Reinders, global marketing director for Advanced Assembly Solutions at Dow Corning. “Our new VE-6001 Optical Bonding Material addresses these challenges by combining higher thermal stability, superior mechanical properties and greater optical performance in a simple one-part UV cure that adapts easily to incumbent optical bonding processes.”

VE-6001 UV Optical Bonding Material reliably adheres a variety of cover window materials – including glass, acrylic and polycarbonate – to automotive LCD display modules. Compatible with common industry processes – such as dam and fill, patterning and slit coating – it exhibits controlled flow during processing, and improved deep section cure, depending on structures, with exposure to UV light.

The new material further exhibits less than one percent shrinkage, making it suitable for larger panel displays. After cure, it forms an extremely soft yet resilient cushioning layer that offers a unique combination of stress relief and dimensional stability for mechanically sensitive automotive touchscreens.

Dow Corning VE-6001 UV Optical Bonding Material combines excellent optical performance with superior thermal stability vs. organic materials. It’s high (>99 percent) transmittance exhibits minimal haze (<0.01) and yellowing (< 0.3) even after prolonged exposure to common automotive environment test conditions.

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“The latest addition to Dow Corning’s proven portfolio of silicone solutions, this cutting-edge new technology delivers improved reliability for automotive display devices with excellent material processability,” said Reinders. “VE-6001 UV Optical Bonding Material is one more example of the proactive and collaborative innovation that has established Dow Corning as an industry leader in high-performance silicones for automotive assemblies.”

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 clean water, clean energy generation and conservation, and increasing agricultural productivity. Dow's integrated, market-driven, industry-leading portfolio of specialty chemical, advanced materials, agrosiences and plastics businesses delivers a broad range of technology-based products and solutions to customers in approximately 180 countries and in high-growth sectors such as packaging, electronics, water, coatings and agriculture. In 2015, Dow had annual sales of nearly \$49 billion and employed approximately 49,000 people worldwide. The Company's more than 6,000 product families are manufactured at 179 sites in 35 countries across the globe. On June 1, 2016, Dow became the 100 percent owner of Dow Corning Corporation’s silicones business, a global company with sales of greater than \$4.5 billion in 2015, 25 manufacturing sites in 9 countries and approximately 10,000 employees worldwide. 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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For further information contact:

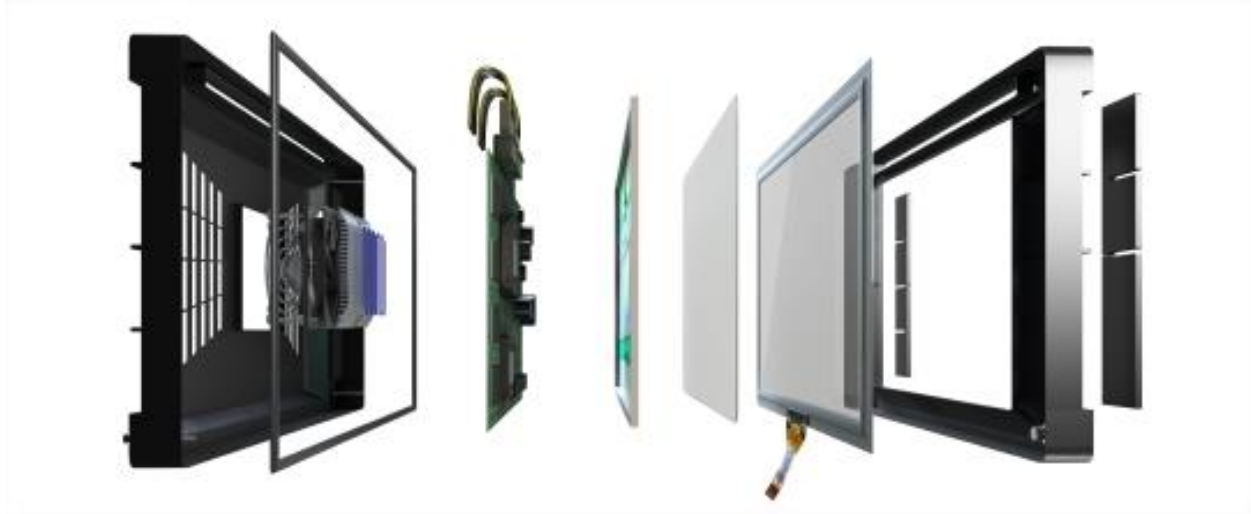
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