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Press Information

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Dow to spotlight new silicone optical bonding, thermally conductive and EMI shielding solutions at CES Asia 2019

Company will also feature recently introduced DOWSIL™ adhesives and sealants, SILASTIC™ silicone rubber technologies offering diverse capabilities

SHANGHAI – June 7, 2019 – Dow Performance Silicones, a global leader in silicones, silicone-based technology and innovation will showcase a wide range of new and recently introduced silicone-based solutions for automotive, communications and consumer electronics applications at CES Asia 2019 (booth N1-1014) from June 11 to 13, at the Shanghai New International Expo Center. As a leading customer innovation partner, the company is proactively developing advanced silicone technologies to meet new demands driven by key trends. Dow's renowned DOWSIL™ and SILASTIC™ solutions for optical bonding, molding, adhesion, heat dissipation and electromagnetic interference (EMI) shielding are key to enable emerging technologies such as 5G networks, electric and autonomous vehicles, and consumer devices for the Internet of Things (IoT).

"The incredibly fast pace of change in connected and smart devices calls for equally rapid advances in materials science," said Rogier Reinders, global marketing director for Dow Performance Silicones. "Dow's pipeline of silicone-based products addresses top engineering and regulatory challenges, such as EMI, thermal management and optical performance and zero-defect performance for safety in ADAS displays. Further, these highly tunable materials deliver other valuable properties—enabling one product to solve a range of challenges related to performance, processability and sustainability. Dow is committed to the automotive, communications and consumer electronics industries, as shown by our investment in advanced materials that can play a key role in propelling new technology breakthroughs."

New Silicone Solutions

At CES Asia 2019, Dow will spotlight two optically clear resin (OCR) solutions for automotive displays exposed to harsh environmental conditions. One product being launched at the show is engineered to protect and cushion LCD/OLED display module electrodes. The other, **DOWSIL™ VE-2003 UV Optical Bonding Material**, offers improved performance for optical bonding of glass and plastic display covers and touch panels. Both provide high reliability under demanding environmental conditions. A video about these solutions will be shown at the Dow booth during the show.

The company will also feature DOWSIL™ EC-6601 Electrically Conductive Adhesive, a recently launched, novel silicone adhesive that combines strong EMI shielding capabilities across a wide range of frequencies with durable mechanical properties. DOWSIL™ EC-6601 Electrically Conductive Adhesive is uniquely formulated to form strong bonds to many substrates and has greater than 150 percent elongation to enable flexibility at the joints. It offers a longer shelf life, better material strength, increased flexibility, stronger adhesion and greater electrical conductivity than competitive conductive elastomers. As an adhesive, it can be used for creating formed-in-place (FIPG) and cured-in-place gaskets (CIPG).

The DOWSIL™ EC-6601 solution is well suited for use in wearables, such as smartwatches, which are often exposed to significant interference that can disrupt their functionality and accuracy. This new adhesive is part of Dow's growing portfolio of EMI shielding technologies. At its exhibit, the company will offer a demonstration of the material's capabilities.

Recent Technology Innovations

Dow's booth exhibit at CES Asia 2019 will also focus on several key product innovations that demonstrate the broad scope and high relevance of its portfolio for current challenges facing the automotive, communications and consumer electronics sectors. These range from adhesives for sealing consumer devices and displays to gap fillers that offer excellent thermal conductivity for heat management in electronic powertrain applications. Dow's **SILASTIC™ 3D-printable silicone rubber**, also to be featured at the booth, is formulated specifically for customers seeking to combine the performance benefits of silicone with the design and processing advantages of additive manufacturing.

Another highlight of the Dow exhibit will be a disassembled smartphone showing how various silicone materials can be used for optical bonding, electrode protection, gap filling, gaskets and more – while permitting repairs that extend a device's useful life to support greater sustainability.

Dow's technical experts will be on hand for the duration of CES Asia 2019 to discuss the company's expanding portfolio of high-performance solutions for the automotive, communications and consumer electronics industries.

About Dow Performance Silicones

Dow Performance Silicones delivers a portfolio of performance-enhancing solutions to serve the diverse needs of customers and industries around the world. The business uses innovative silicon-based technology to provide solutions and ingredients to customers in commercial construction and high-performance building, consumer goods, silicone elastomers, and pressure sensitive industries. As a global leader in innovation and silicone technology, we are committed to bringing new and proven solutions to the market that do more for our customers and continue to improve the lives of consumers worldwide. Visit [consumer.dow.com](https://www.consumer.dow.com) to learn more.

About Dow

Dow (NYSE: DOW) combines one of the broadest technology sets in the industry with asset integration, focused innovation and global scale to achieve profitable growth and become the most innovative, customer centric, inclusive and sustainable materials science company. Dow's portfolio of performance materials, industrial intermediates and plastics businesses delivers a broad range of differentiated science-based products and solutions for our customers in high-growth segments, such as packaging, infrastructure and consumer care. Dow operates 113 manufacturing sites in 31 countries and employs approximately 37,000 people. Dow delivered pro forma sales of approximately \$50 billion in 2018. References to Dow or the Company mean Dow Inc. and its subsidiaries. For more information, please visit www.dow.com or follow [@DowNewsroom](https://twitter.com/DowNewsroom) on Twitter.

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