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Dow Corning Further Challenges the Boundaries of LED Design with Launch of Three Advanced New Moldable Silicone Products

PHILADELPHIA – May 9, 2017 – Dow Corning, a wholly owned subsidiary of The Dow Chemical Company and a global leader in silicones, silicon-based technology and innovation, unveiled at LIGHTFAIR International 2017 (Booth #2557) a significant expansion to its industry-leading portfolio of LED solutions with the launch of three new high-performance products under the *Dow Corning*[®] label: MS-4002, MS-4022 and MS-4007 Moldable Optical Silicones. Offering enhanced optical, mechanical and processing properties, these three new products further broaden design freedoms for secondary lenses and optical elements used in high-brightness LED lamps and luminaires.

Individually, each of the new Moldable Optical Silicone products offers a unique combination of viscosity, hardness, surface tack and optical performance to provide maximum design flexibility. As a group, they share cure speeds optimized for injection molding processes, and higher elongation to allow easy demolding of complicated parts, such as lens clusters with varying wall thicknesses or free form lenses with negative draft angles.

After full cure, the new products enable plastic-like, smooth optics with comparatively high hardness and low surface friction. Combining high transmittance with low dispersion, they also help to further enhance the lumen efficiency of LED lamps and luminaires with relatively long light paths. Like all of Dow Corning's Moldable Optical Silicone products, their high thermal stability and UV resistance helps to ensure their excellent clarity will not fade – even upon exposure to high temperature and/or outdoor lighting conditions.

“As LED technology continues to evolve and the lighting market grows ever more competitive, Dow Corning is working closely with industry leaders to help them proactively anticipate challenges and develop higher performing and differentiated designs,” said Rogier Reinders, global marketing director for Advanced Assembly Solutions at Dow Corning. “The three latest additions to our award-winning Moldable Optical Silicone family build on this tradition of collaborative innovation to push performance boundaries – not only for our own growing portfolio of LED solutions, but for the next-generation LED lamps and luminaires that our customers worldwide are developing today.”

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A market leader in materials, technical knowledge, and collaborative innovation for LED lighting concepts, Dow Corning offers solutions that span the entire LED value chain, adding reliability and efficiency to shaping light and to sealing, protecting, adhering, and cooling lamps and luminaires across all lighting applications.

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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CAPTION: Dow Corning unveiled a significant expansion to its award-winning Moldable Optical Silicones portfolio with the launch of three new high-performance materials under its *Dow Corning*[®] label: MS-4002, MS-4022 and MS-4007 Moldable Optical Silicones. Offering enhanced optical, mechanical and processing performance, these three new products further broaden design freedoms for secondary lenses and optical elements used in high-brightness LED lamps and luminaires. Photo courtesy of Dow Corning, a wholly owned subsidiary of The Dow Chemical Company.