

## Driving Global Growth in Self-Sealing Tires with Next Generation SILASTIC™ SST 8860

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### Abstract

Over the past few years, Dow has developed the innovative SILASTIC™ Self-sealing silicone for the growing self-sealing tires market. Partnering with Bridgestone, the B-SEAL<sup>S</sup> sealant technology has recently been launched in a Bridgestone tire on several leading electric vehicle platforms. The Dow SILASTIC™ SST 2650 offers numerous advantages over traditional butyl-based technologies, including high sealing efficiency in various weather conditions, no need for laser pre-cleaning, and room temperature coating application. This presentation will unveil the next generation product SILASTIC™ SST 8860, which encompasses these benefits whilst demonstrating over 75% material recovery and reuse through advanced recycling and superior sealing performance. With the possibility of even faster processing at 40% lower coat weight compared to other self-seal products, this technology can coat a variety of tire sizes quickly, making it ideal for high-volume manufacturing. In addition, the talk will introduce a new range of silicone adhesives for silent tires, which are easy to use, offer high adhesion for foams during operation, and are fully removable at the end of tire life, enabling recycling.

## Biography (For Plenary, Keynote, and Invited Speakers)

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### Personal History:

Mr Kranthi Bannuru is currently a TS&D Specialist with Dow Consumer Solutions. He is responsible for the development and implementation of new silicone elastomers for automotive, consumer and industrial applications in ASEAN/ANZ. Mr Bannuru received his MEng (research) in Engineering product development from Singapore University of Technology and Design, MSc in Industrial chemistry from Technical University of Munich and National University of Singapore and a BTech in Chemistry from Indian Institute of Technology.

### Research Keyword (3-5 keywords use commas to separate each word):

Silicone, Elastomer, Self-sealing tire, silent tire