

Noise and vibration control solutions from

Dow Corning



AV07246

Silence is Quality & Long Lasting Silence is Excellence

Drivers nowadays are offered high standards of ride comfort with reliability in navigation systems and safety features. What used to be considered luxury is now being demanded by most consumers as a standard of performance. This is becoming growingly true for noise and vibration control in vehicles. The “quiet tuning” becomes a marketing advantage. Silicone Rubber solutions from Dow Corning are a source of innovation and can offer a significant benefit to engineers.



AV07423

TRENDS AND CHALLENGES IN NOISE AND VIBRATION CONTROL

Customers are valuing silence and noise control, as related to the overall quality perception of the vehicle, and they want it effective over the years of ownership. In the meantime, engineers are facing harsher challenges they need to address:

- High engines temperatures
- Tougher mechanical specifications
- Contacts with more and more aggressive fuels and oils

THIS CHALLENGE NEEDS PARTNERSHIP AND INNOVATION

The selection of materials is a critical step in designing solutions for noise control. The jobs these materials have to fulfill can be complex, from noise abolition, vibration eradication, and shock elimination up to rattles riddance. Furthermore, the operational conditions are tough, with wide range of working temperatures to various weather environments.

Partnering from the start with material inventors who understand the job’s challenges, can offer a step forward and save time to identify the right solution: the one that performs in the job, but also offers **an optimized cost of development and manufacturing**.

Silastic® silicone rubber compounds technologies from Dow Corning have been used for many years to develop noise and vibration control parts that offer long lasting excellent performances.

DOW CORNING SOLUTIONS, VALUED AND PROVEN

Silastic Silicone Rubber Compounds from Dow Corning have been widely used since many years to increase soundproof performances in vehicles. Used as isolators, mass dampeners or hangers, they are a proven solution to control rattling and vibrations, especially in trucks and high performance cars.

Today, they are increasingly considered in the new developments and other types of vehicles, for example in Europe, as exhaust hangers for diesel engine pipes. Tiers 1 and key fabricators rely on Dow Corning innovation to formulate high performance silicone rubber compounds that answer their proprietary specifications.

SILICONE RUBBER A PREFERRED MATERIAL

Silicone elastomers increase soundproof performance by reducing noise and vibration through the frame of the car. Silicone rubber's specific properties make it an ideal material for sound and vibration damping applications because of its consistent behavior in a wide range of harsh environments:

- Good dampening properties
- Temperature resistance over a wide range (-100°C up to 316°C)
- Long lasting



Connect with Dow Corning experts to look at new ways to address your noise and vibration control challenges. Dow Corning Engineered Elastomer Solutions are available worldwide and are supported locally by the widest market and technical expertise. For more information, visit www.silastic.com, or contact the Dow Corning Customer Service Centers located close to you.

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