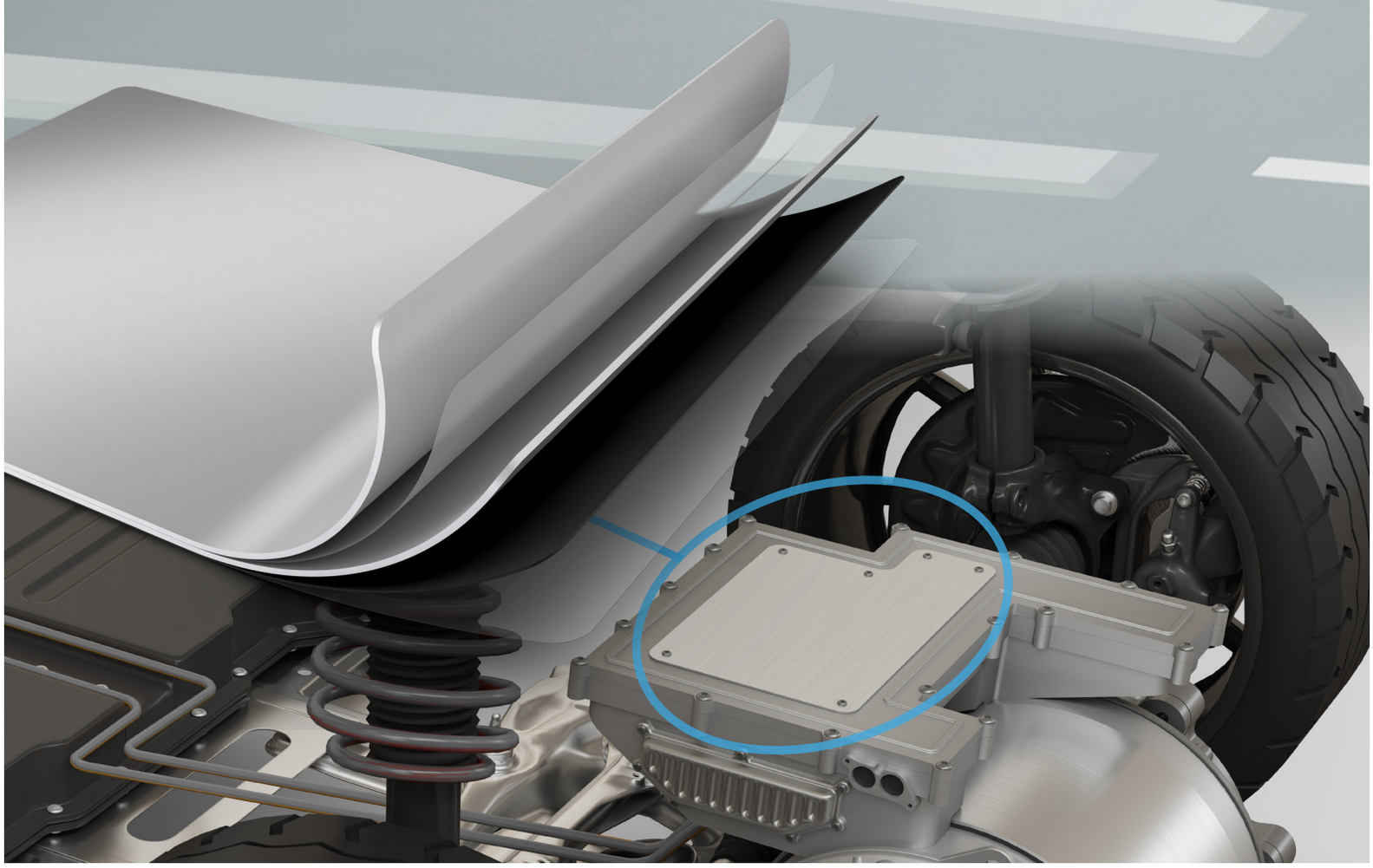
Effective Materials for Noise & Vibration Damping

Damping Solutions for E-Mobility

Higher Performance and Lower Weight

Optimized for EV Applications



Optimized Damping Materials

Challenges

While quieter than internal combustion engines, electric drivelines have their own noise and vibration challenges such as inverter covers, transmissions and electric motors.

Solution

Trelleborg's next generation Applied Damping Materials - ADM lowers the vibration levels in the vehicle's structure, reducing transmission of vibration into airborne noise.

Description

ADM is a constrained layered damping material that consists of metal layers that have been vulcanized together with various damping materials to produce a strong and durable laminate.

ADM can be:

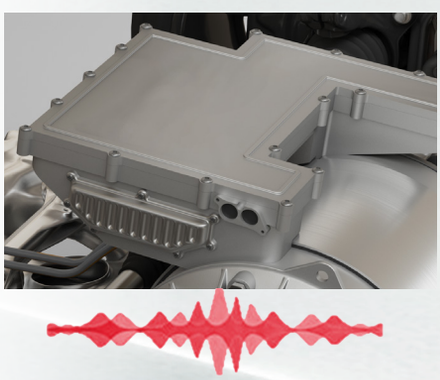
- Applied to surfaces that radiate excessive noise.
- Formed and cut to part using conventional press operations such as press forming and die cutting.
- Produced made-to-measure for customer specific components.

Typical applications have included housings and covers where damping is needed, e.g. inverters, power electronic units, engine covers, valve covers, chain covers, oil pans, transmissions and electric motors.

Benefits

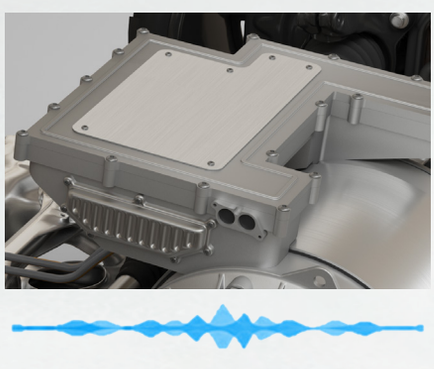
- Superior damping of structure-borne noise and vibrations where it matters.
- Can be designed to fit most surfaces.

Source of Vibration



Will make the difference!

With Damping



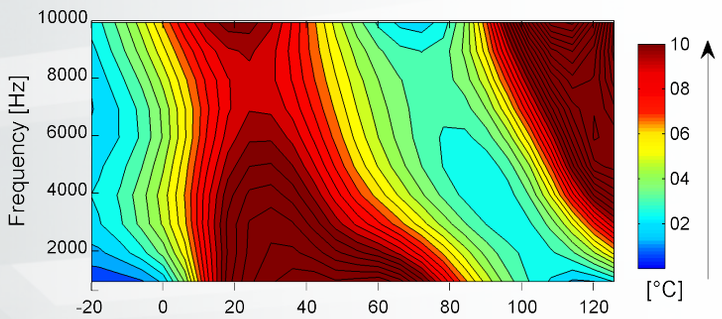
ADME2 16 42 - Premium Damping Material

Sandwich material with the best damping performance.

Material Configurations

Total Thickness 1.52mm

Damping Performance



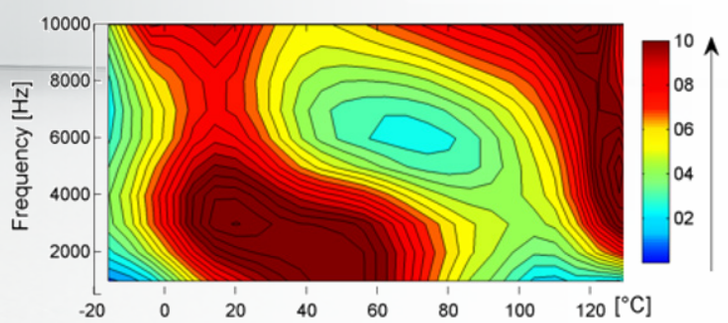
ADME2 13 41 - Excellent Damping at elevated temperatures

Damping material optimized for eDrive applications.

Material Configurations

Total Thickness 1.32mm

Damping Performance



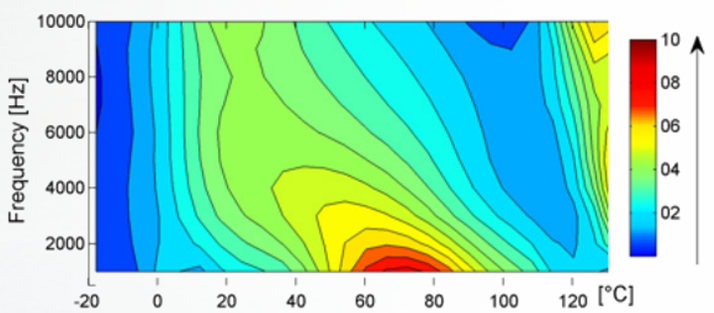
ADME2 15 61 - Lightweight Damping Material

Lightweight material for damping when mass is critical.

Material Configurations

Total Thickness 1.50mm

Damping Performance



Contact Details
Scan this QR code to save
our contact details.

TRELLEBORG

We are part of the Trelleborg Group, which is the world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way.

ADM_Next_gen_r7

WWW.TRELLEBORG.COM/RUBORE