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## Polyurethane Solutions for NVH and Acoustic Performance



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Silence is golden, and at Covestro, we understand that a quiet car interior is becoming the gold standard. No longer considered a luxury, a quiet ride is a must-have for car owners. That's why we have developed a portfolio of acoustically tuned polyurethane foam formulations that are market proven performers. And, as the trend

continues toward electrification and the need for quiet interiors becomes even more pronounced, our industry experts and development chemists are ready to partner with you to advance new solutions to the industry's acoustic challenges.

## Looking ahead – partnering for a productive future:

Covestro's future of mobility (FoM) team is dedicated to looking at the evolving trends in the auto industry and, based on those trends, identifying the industry's potential future needs. The FoM team then works closely with our dedicated automotive teams to adapt and invent material solutions that will address the projected industry needs.

At Covestro, we diligently review our current applications and technology portfolios to provide the auto industry with a reliable partner that is ready to tackle the inevitable changes in the industry. Collaboration between our experts and yours is a key factor in the success of developing new technologies that bring the future of the auto industry one step closer at a time.

### Proven solutions from Covestro that can help drop decibels from automotive interiors:

#### Hoodliner: Baynat® SA

- Formulated specifically to absorb engine and road noise
- Value Add:
  - Formulated for higher temp environment
  - Easier to process when compared to fiberglass
  - Allows for a lighter weight part

#### Cavity Fill: Bayfit® EA / SA

- Absorbs structural void noise and vibration
- Value Add:
  - Efficient processing
  - Lighter weight

#### Roof: Baynat®

- Cell structure formulated to absorb exterior sounds
- Value Add:
  - Offers structural integrity to the roof system
  - Optimized for low emissions and odor
  - Enables lighter parts compared to competitive material
  - Design freedom – formable

#### BIW: Baytec® AS

- Sprayed on metal surfaces to dampen vibration and block low frequency sounds
- Value Add:
  - Eliminate manufacturing steps through one-step spray process

#### Cockpit: Bayfill®

- Instrument Panel system minimizes interior cabin sound reflection and exterior sound penetration
- Value Add:
  - Creates soft touch surfaces on dashboard
  - Optimized for low emissions and odor
  - Works well at a variety of densities and thicknesses
  - Processes well in a different configurations

#### Engine encapsulation: Bayflex® Integral

- Moldable system formulated to capture engine noise
- Value Add:
  - High temperature resistance

#### Dash: Baytec® AS

- Low frequency sound blocker, combined with a high frequency sound absorber (i.e. Bayfit® SA)
- Customizable application to target sound hot-spots – more material where it's needed, less where it isn't
- Value Add:
  - Weight savings through customizable, efficient material use
  - Durability through material specifications

#### Vehicle Floor and Trunk: Bayfit® SA

- Formulated to absorb road noise
- Value Add:
  - Durability
  - Ease of processing

#### Tires:

- Absorbs road and tire noise before it exits the tire and can travel to the passenger cabin

#### Wheel arches: Baytec® AS

- Sprayed into wheel arches to block road and tire noise
- Value Add:
  - Durability
  - One-step spray process

#### Seats

- Hyperlite3 formulated for comfort and minimized vibrations

