

PORON® Urethanes Improve Passenger Comfort in Automobiles

The Designer's Challenge

Noise and vibration are generated when a vehicle's fuel pump is in operation and when the fuel tank and underbody components come in contact. This airborne and structural noise travels to the interior of the vehicle causing passenger discomfort. In an effort to reduce the noise and improve the passenger's experience, isolator pads are placed in strategic contact areas around the fuel tank.

The isolator pads must reduce the noise generated by the fuel pump and isolate vibration caused by component contact.



Automotive Fuel Tank with PORON Isolator Pads Circled

Rogers Material Solution

PORON® Urethanes 4701-40 Soft in various thicknesses with PSA

- PORON Urethanes 4701-40-15315
- PORON Urethanes 4701-40-15250
- PORON Urethanes 4701-40-15188

Design Solution Features and Benefits

- PORON Urethanes effectively reduce noise and vibration
- Excellent compression set resistance properties provide long-term cushioning between the fuel tank and floorpan
- Available in multiple thickness options to accommodate different design configurations
- Meets Ford/GM/Chrysler automotive specifications, enabling easy adoption by OEMs

Market and Customer Information

- Automotive OEMs and fuel tank manufacturers. (NAICS Code: 336399)

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