

Side Fender Acoustic Seals

For the ultimate driving experience



Creating tomorrow's mobility

The evolution from conventional engines to electrified vehicles promises a future with less noise and pollution. It has also changed the sources of noise, presenting car manufacturers with new challenges. While silencing efforts have traditionally focused mainly on the powertrain, tomorrow's solutions need to address the growing importance of road and wind noise.

Recticel Engineered Foams supports vehicle manufacturers with forward-thinking solutions for noise reduction and thermal management. Its technologies help to create an exclusive driving experience while also reducing energy consumption and extending mileage.

The evolution of the side fender seal

In the past, side fenders were a part of the car body, which was made entirely of metal. Over time, body structures have changed and today's side fenders generally form a recess. Side fender seals are used to aesthetically close this recess and protect it from water and dust. Even more importantly, they play a vital role in blocking tyre, road and aerodynamic noise.

An important parameter for measuring acoustic performance is transmission loss which: the higher the transmission loss in a system, the better its noise suppression.

Our future-ready mobility solutions

Noise reduction

- Electric motor encapsulation
- HVAC sealing and insulation
- Power inverter insulation
- Side fender seal
- Silent tyre
- Wheel arch acoustic pads

Thermal management

- Battery holding pads and cell pads
- Electric motor encapsulation
- Power inverter insulation







Our patented all-in-one solution

The new bagged complex side fender seal from Recticel Engineered Foams uses a unique combination of materials to deliver an innovative all-in-one solution. High-quality acoustic foam layers enable balanced acoustic sealing and absorption while reducing the number of components required to insulate rolling noise. A stabilising layer of double-walled polypropylene allows easy installation. The surrounding film layer provides a waterproof and dustproof seal with a superior lifetime compared to a plastic injected part with an additional glued layer of PU.



Benefits for drivers, manufacturers and installers

- Well balanced acoustic sealing and absorption thanks to the selection of premium acoustic foam layers
- A quieter, more pleasant driving experience with significant blocking of tyre, road and aerodynamic noise
- A comprehensive approach that reduces weight while improving acoustic and sealing properties
- Flexibility to adapt to any requirement or design
- Available with sustainable fibre-based materials



A full portfolio to meet every requirement

Recticel Engineered Foams provides a wide range of side fender seals to ensure the best components for every vehicle and manufacturer. As well as optimal transmission loss, the portfolio of PU and non-PU materials offers a number of additional characteristics that can be tailored for the solution of choice. These include an attractive appearance when the car door is open, enhanced acoustic absorption, easy assembly and added protection against water, dust and frost for a longer lifetime.



Properties	Die Cut Part Single Foam	Die Cut Part Complex	Thermo- compressed	Bagged Single Foam	Bagged Complex	Moulded Single Foam	Moulded Foam + Film
Design	2D	2D	2.5D	2D	2.5D	3D	3D
Appearance	+	++	+++	++	++	+	+++
Water and dust resistance	+++	+	+	+++	+++	+	++
Ease of installation	+++	+ to ++	+++	+ to ++	+++	++	+++
Transmission loss	+	+	+	+ to ++	+++	++	++
Acoustic absorption	0	+ to +++	+++	+	+ to ++	++	+

Rating: + = good ++ = advanced +++ = excellent

Bagged complex side fender seals are also available with sustainable materials.



About Recticel Engineered Foams

Recticel Engineered Foams applies industry-leading knowledge, resources and experience to offer the tailored solutions our customers need to stay ahead. Our unique portfolio of foams and systems – spanning industrial, mobility, consumer & medical care, living & care applications – is one of the most comprehensive in the market. We focus strongly on sustainable innovation and strive to provide answers to societal challenges, including climate change and conservation of resources.

Tailored solutions and innovations

The key to the success of PU foams is their seemingly endless versatility. Many everyday objects would be unimaginable without their unique benefits, which include silencing, sealing, filtering, carrying, protecting, supporting and comforting attributes. These can be provided in almost any combination, allowing us to develop solutions and systems with the exact functionalities required by every market we serve.

