

Interior Solutions

How can 3M help you?

Contact 3M Automotive Division to see how we can help your business.

Our team of specialists are on hand to help solve your business issues and application requirements.

Interior

Exterior

Paintshop

Body in White

Powertrain

New Technology

Introduction

With a broad range of innovative fastening and adhesive technologies, sound absorbing materials, optical films and cabin air filters, 3M can help to increase driving comfort, reduce noise generation, improve air quality and reduce vehicle weight. 3M Automotive Division offers interior solutions for all areas of the vehicle:

- Headliner
- Cockpit
- Seats
- Doors
- Floor Systems
- Luggage Compartment

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Headliner

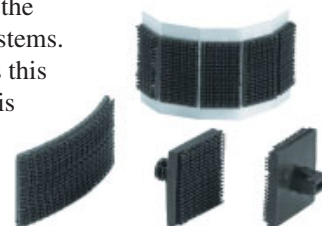
- **Thinsulate™ Acoustic Insulation** - offers excellent acoustic absorption properties and is extremely light. This innovative product provides a superior sound-proofing effect using a minimum surface weight and weighs up to 50% less than other products. In addition, the hydrophobic material absorbs less than 1% of its weight in water. This not only ensures permanently low weight, but also reduces the risk of mold and odours. Attachment is simple (eg through ultrasound welding) and can be simply integrated in your production process. Thinsulate™ can also be used in a wide range of other interior applications.



- **Hot Melt Adhesives** - 3M™ Jet Melt™ and Jet Weld™ adhesives withstand temperatures up to 130°, and as a consequence they are particularly suitable for fastening cables and other elements in the headliner area. They achieve high strength in seconds and even bond PVC and PP securely with the headliner. They can also be used in the door and seat areas.



- **3M™ Fastbond™ Dispersion Adhesives** - due to lower emissions, water based dispersion adhesives are more economical in use than most solvent containing alternatives. With longer bonding ranges they enable flexibility in production whilst still offering instant grab and high environmental performance. This product works with foams, textiles and leather used in vehicle interior applications such as instrument panels, door trims, headlining and load space flooring.
- **3M™ Dual Lock™ Reclosable Fastening Systems** - using hook and loop technology this product utilises miniature mushroom shaped stems which interlock when pressed together with up to 12 times the performance of standard hook and loop fastening systems. Enabling quick fitting and maintaining sleek profiles this system improves process productivity. This product is available with either a mechanical fitted clip or in a self adhesive form.



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Cockpit

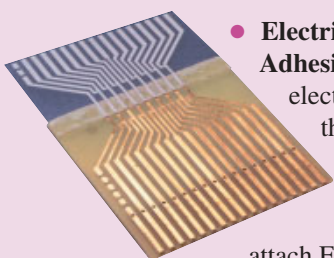


- **Cabin Air Solutions** - the ultra-fine fibre structure and a combination of filters prevent a variety of particles and noxious gases entering the car's interior.

- **3M™ Vikuiti™ Optical Films** - by preventing unwelcome reflections in the passenger area and on the windscreen, optical films applied to instrument clusters can improve the driving experience. Navigation and entertainment systems can also be made more visible as optical films can increase light source efficiency by up to 90%, obtaining more uniform illumination with reduced heat generation.



- **Electrical and Thermally Conductive Adhesive Films** - high performance electrically conductive adhesive products that can be used to mechanically and electrically bond flexible circuits. Electrically conductive adhesives can be used to connect flexible circuits or attach EMI/RFI shields to electronic equipment.



Seats

- **Superflex Seat Cover Fastening** - this system has a unique 3D flexibility, which enables new types of seat contours. The unique product construction ensures outstanding attachment to the seat foam, allowing faster processing results. Narrow trim channels can also be accomplished, offering new possibilities for seat design.

Doors

- **Anti Buzz, Squeak and Rattle Solutions** - covering a range of bump-on protectors, tapes, films, foils and other NVH products.
- **Low Friction Tape** - reduces friction resistance and prevents abrading. The components are protected against corrosion, maintain their flawless appearance and do not generate any secondary noises.
- **Acrylic Foam Double-Sided Tape** - is a universal solution for secure and permanent attachment of components such as seals and trim components.
- **Two-Component Structural Adhesives** - high strength bonds for a wide variety of materials including plastic to metal and polypropylene to polyethylene.

Floor systems

- **Glass Bubbles** - help reduce weight by up to 30% improving dimensional stability and reducing noise and vibration. They offer low density and high strength making them an ideal lightweight additive in automotive applications.

Luggage compartment & other applications

- **Surface Protection Films** - help protect surface finishes against dirt, grease and abrasion damage during processing, storage and transportation. Films are available in a wide range of thicknesses and tack levels to ensure that it removes cleanly without leaving adhesive residue.

- **Paint Protection Film** - provides tough, transparent surface protection from loading and unloading and other hazards, ensuring painted surfaces remain protected. Suitable for door and loading sills and bumpers.



- **3M™ Scotchmate™ Hook and Loop Fasteners** - self-adhesive hook and loop fasteners can be bonded on virtually all materials and make it possible to secure a warning triangle, first aid kit and tools in place. The hook fastener simply hooks into the carpet lining of the boot area.

- **Identification and Label Products** - wide range of labeling solutions to securely identify products and components. The range also includes products whose intentional removal can be indicated under UV light.

- **High Performance Multi Purpose Tapes** - an extensive product range which can provide high tack, aggressive, durable bonds to the majority of surfaces including low surface energy plastics and rubbers as well as high temperature, clarity or plasticiser resistant properties. Available in a variety of formats to allow automated application.

- **Converted Tapes** - almost all 3M tapes can be die cut or converted to improve speed of application, maintain consistency of quality, reduce waste and facilitate the use of automation.

Future technologies

- **Flat Flexible Cables** - new extruded cable technology facilitating the easy integration of electronic components, saving space and weight.
- **Lighting Solutions** - ambient lighting and light distribution.
- **Security Solutions** - trademark and product protection.

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