



# Tape Solutions for Automotive Applications



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## Climate Control

Improving the comfort inside the car is a challenge in climate control. Our gasketing solutions feature low fogging/VOC providing a better air quality compared to other materials.

### Typical solutions:

- **Norseal**® AGP200 die-cuts for HVAC or cowl grill gasketing
- **Dynafoam**® Foam-In-Place sealing for air inlet parts or cowl grill gasketing



## Door & Window Systems

Our expertise in door and window systems focuses on different levels of sealability. Our lightweight sealing materials offer a wide range of softness and elasticity. Our product range also includes low friction films.

### Typical solutions:

- **Norseal** strips or die-cuts for door lock sealing
- **Norseal** extruded or Butyl Coated profiles for fixed quarterlites
- **Norseal** AGP200 die-cuts for speaker sealing
- **Dynafoam** Foam-In-Place sealing for door modules, door lock sealing or speaker sealing



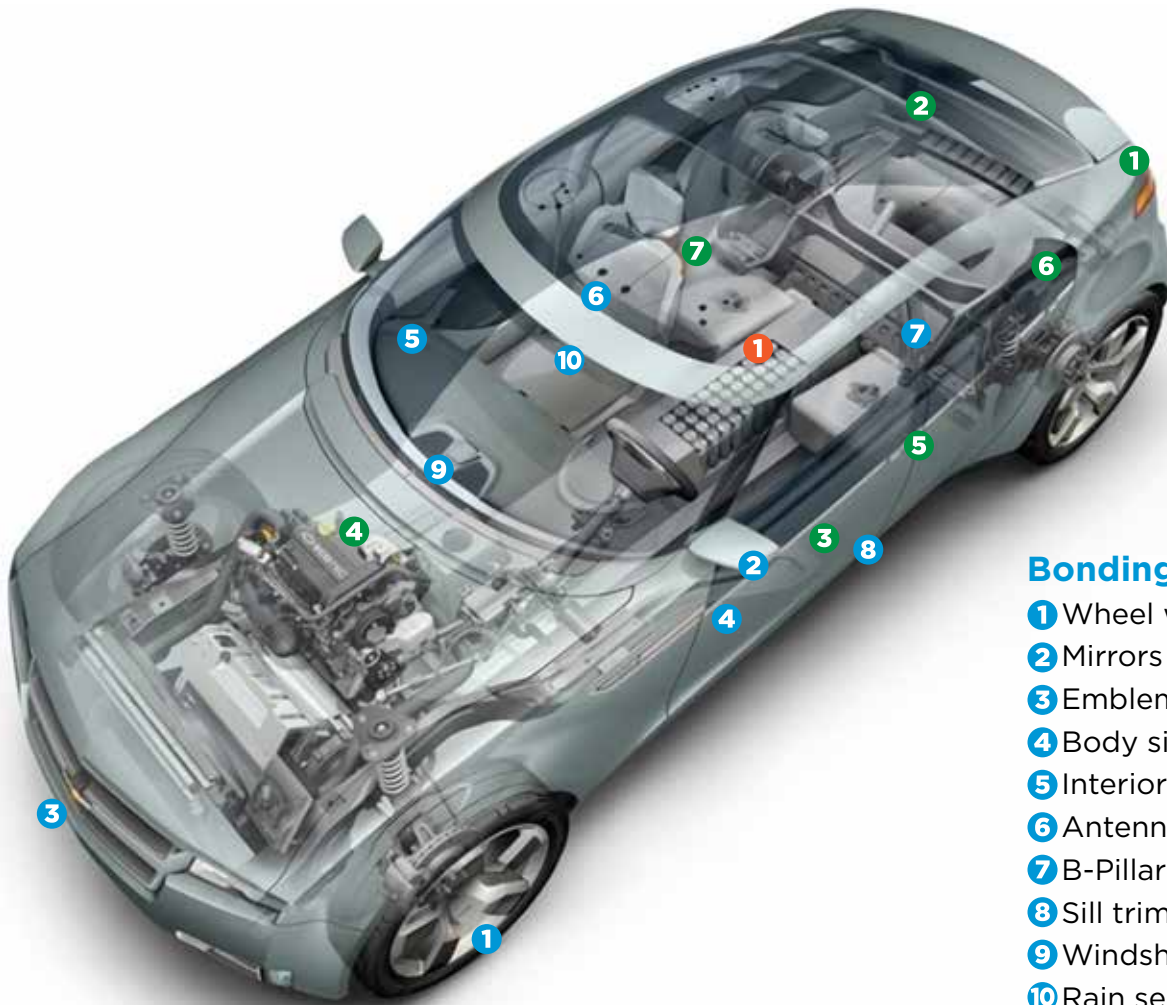
## Body & Exterior

While car body styles continue to evolve with more complex shapes and features, new clearcoat paint systems are becoming increasingly difficult to adhere to. Fortunately our complete range of OEM approved tape solutions includes acrylic, polyurethane, and polyethylene foam core technologies, and high performance adhesive systems. So whether your application requires excellent peel resistance and elongation or high shear and tensile strength, we can offer the right solution for your needs.

### Typical solutions:

- **Norbond**® tapes for emblem, wheel weight, step trim and body side moulding

# Your Partner for Automotive Innovation



## Bonding

- 1 Wheel weights
- 2 Mirrors
- 3 Emblems
- 4 Body side mouldings
- 5 Interior decoration
- 6 Antennas
- 7 B-Pillar covers
- 8 Sill trims
- 9 Windshield & cowl grills
- 10 Rain sensors

## Sealing

- 1 Rear lights
- 2 Brake lights
- 3 Door modules
- 4 HVAC modules
- 5 Door locks
- 6 Fixed windows
- 7 Sunroofs

## Proven in the Past...

**Saint-Gobain**® has been providing the automotive industry with high performance foams and tapes for over 40 years. Brands like **Dynafoam**, **Norbond** and **Norseal** have become industry standards.

## ...Helping you Drive the Future

Drawing on our experience and competencies to bring in new solutions, we strive to evolve as technology changes and are willing to tailor to the industry's specific needs.

## Multi Functions

- 1 Battery packs



## Protection for Battery Packs

More than ever, electric vehicles are making serious inroads into the mainstream requiring batteries to perform safer, better and longer than ever before. Our range of solutions addresses several challenges to performance, including external atmosphere, isolating internal fire, providing cushioning between cells and conducting heat away from batteries to ensure optimal operation.

### Typical solutions:

- **Norseal** PF-Series & Silicone compression/tolerance pads between cells
- **Norseal** PS-V0 Series, Silicone foams & FR-BCF for sealing the packs from external atmosphere
- **Norseal** TRP for isolating cells/packs in the event of thermal runaway events
- **Dynafoam** Foam-In-Place for sealing battery packs
- **ThermaCool**® thermal interface materials to conduct the heat away from cells
- Electrical insulation tapes for harness wrap, connectors and frame components



## NVH Control

With vehicles becoming increasingly silent, noise decoupling and vibration damping continue to be major challenges, especially on the vehicle interior. Our solutions feature soft and conformable gasketing materials as well as films & tapes with very low coefficient of friction.

### Typical solutions:

- **Norseal** strips & die-cuts for interior trims
- **Norseal** AGP die-cuts for dashboard applications
- **Dynafoam** Foam-In-Place sealing on B-pillar for wind noise reduction
- **CHR** 2302 UHMW PE tape for noise decoupling applications



## Lighting Systems

Our expertise in lighting systems focuses on complex gasketing designs providing outstanding sealability over the life of the product.

### Typical solutions:

- **Norseal** extruded or Butyl Coated profiles for back lights
- **Dynafoam** Foam-In-Place sealing for brake lights & back lights

# Innovative and Differentiating Product Solutions to Meet Tomorrow's Challenges in the Automotive Market



## KEY COMPETENCIES

- Bonding
- Sealing
- Thermal management
- Vibration absorption
- Impact protection
- Tolerance compensation
- Chemical resistance
- Low & high temperature resistance
- Controlled porosity
- Low friction

	Products	Benefits
<b>Norbond</b>	High performance bonding tapes with pressure sensitive adhesive. PU, PE or Acrylic foam core.	Varying ranges of operating temperatures up to 180°C.
<b>Norseal</b>	Compressible closed cell cast foam with pressure sensitive adhesive. PVC, PU or Silicone foam core.	Different densities and firmnesses available.
<b>Norseal Extrusion</b>	Extruded profiles. PVC or thermoplastic vulcanizates (TPVs) core. PVC extruded core with a butyl coating.	Ideal for absorbing joint movements. Available in various shapes. Combines ease of application with excellent water-sealability.
<b>Norseal AGP</b>	Very soft bio-based hydrophobic PU foam.	Excellent conformability and water sealability. Very low fogging / VOC.
<b>Dynafoam</b>	Robotically applied Foam-In-Place gasket.	Outstanding sealability at low compression. Allows for complex sealing designs. Very low water absorption.
<b>CHR</b>	PSA and PE tapes.	Low friction, high wear life, high dielectric strength and broad chemical resistance.
<b>ThermaCool</b>	High performance interface materials. Silicone based engineered foams & gap pads.	Multi-property materials. Constant properties throughout product life. Thermal management.

# Contact us for your bonding, sealing and thermal management challenges:

- Emblems
- Wheel weights
- HVAC
- Cowl grill
- Windows
- Door modules
- Door locks
- Sunroofs
- Glass run seal
- Body side moulding
- Battery packs
- Lighting
- Step trims
- NVH
- Exterior trims
- Sharkfin antennas
- Harness wraps
- Sensors
- Battery packs



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