



**3M** Science.  
Applied to Life.™

3M Automotive

# Design and build with confidence

With a network spanning 65 countries, 3M is a true global partner to automotive OEMs and tier suppliers, offering solutions, services, support and manufacturing capabilities at the local level.

Wherever cars are made, 3M is there to help.

# Design and build with confidence

You and your customers have strong preferences and strict expectations. 3M works with you to help ensure that you can meet your goals. Whatever you want to achieve in design, manufacturing and assembly – NVH reduction, lightweighting, styling and comfort, or process improvement – we can help. 3M has over 100 years of experience and more than 1,000 products to help you stay ahead of the competition.

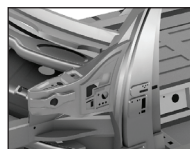
**“We have a solution for every phase of the vehicle design and assembly process.”**



**Acoustic Insulation**  
Lightweight, high-performance acoustic absorber



**Fluoropolymers**  
Wide range of high performance fluoroelastomers, fluoroplastics and PTFE for use in demanding powertrain and fuel system applications.



**Structural Bonding Tapes and Adhesives**  
Epoxy film adhesive for bonding, stiffening or corrosion protection of metals



**Adhesives**  
Broad portfolio formulated for wide range of substrates and conditions



**Friction**  
Friction enhancing solutions for joining components to transmit higher forces and torques



**Tape Attached Hardware**  
Components with pre-applied pressure sensitive or heat curable tapes



**Attachment Tapes**  
High-performance, double-sided, pressure sensitive and heat activated tapes



**Glass Bubbles**  
Lightweight, cost effective, high-strength, low density additive



**Thermal and Emission Control Materials**  
Mat Mount and insulation products for pollution control systems



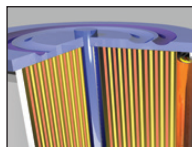
**Auto Glass Films**  
Films for laminated glass and aftermarket windows to reduce heat and UV without electronic signal interference



**Interior Trim Films**  
Customizable, premium film for covering interior trim parts



**Thermal Interface Materials**  
Efficient heat transfer and cushioning for long-term reliability and performance optimization



**Battery Cell Materials**  
Materials portfolio to enable smaller, safer, longer lasting hybrid and electric vehicles



**Light String**  
Highly flexible light guide with superior uniformity and temperature durability



**Thermal Management Fluids**  
Non-flammable, direct contact cooling fluids with high dielectric constant



**Display Solutions**  
Films to manage reflections, manipulate light distribution and increase display brightness



**Performance Label Materials**  
Comprehensive portfolio of adhesives, topcoats, facestocks and liners



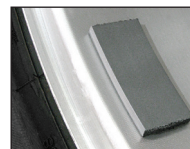
**Thin Bonding Tapes**  
Extensive portfolio of adhesive transfer and double coated tapes for bonding a wide range of substrates



**EMI/EMC Electronic Materials**  
Sensitive electronics and communications, wireless charging



**Optically Clear Adhesive**  
Very durable, clear, laminating adhesive with high heat, UV and humidity resistance



**Wheel Weights**  
Lead-free wheel balancing



**Exterior Trim Films**  
Chrome or high gloss black paint replacement for vehicle trim parts



**Paint Protection Film**  
Virtually invisible film to protect vulnerable vehicle surfaces



**Fastening**  
Mushroom-shaped stems snap together tightly for dependable repeatable attachment.



**Paint Replacement Film**  
Film alternative for blackout appearance around automotive side glass

# Exterior

## ① 3M™ Acrylic Foam Tape for exterior trim attachment

Moldings, sensor brackets, B pillar appliqué

## ② 3M™ Acrylic Foam Tape for Sealing and Weatherstrip

Body, door, trunk and deck lid seals

## ③ 3M™ Auto Glass Film

Side and rear glass

## ④ 3M™ Die-Cuttable Acrylic Foam Tapes

Nameplate attachment

## ⑤ 3M™ Exterior Trim Film

Belt line moldings

## ⑥ 3M™ Glass Bubbles in Plastic Parts

Sheet molded composite panels, hood, trunk lid, engine cover

## ⑦ 3M™ Glass Bubbles in Sealants

Seam sealers, underbody coatings

## ⑧ 3M™ Paint Protection Film

Hood, bumper, trunk ledge, rocker panels

## ⑨ 3M™ Paint Replacement Film

Door pillars, sashes and moldings

## ⑩ 3M™ Structural Bonding Tape

Roof ditch molding clips

## ⑪ 3M™ Wheel Weights

Lead-free wheel balancing

## ⑫ Tape-Attached Hardware

Mirror buttons, sensor brackets, locator pins



# Chassis/Powertrain

## 1 3M™ Battery Cell Materials

Anode powders, coated current collectors and electrolyte additives

## 2 3M™ Dyneon™ Fluorothermoplastic

Fuel hoses

## 3 3M™ Dyneon™ Fluorelastomer

Powertrain and transmission seals, hoses and o-rings

## 4 3M™ Dyneon™ PTFE

Engine, transmission, steering and shock absorber seals

## 5 3M™ Fastener Adhesives

Adhesive pre-applied to threaded fasteners

## 6 3M™ Friction Shims

Crankshaft, camshaft, and balancer shaft

## 7 3M™ Interam™ Mat Mount and Insulation

Gasoline and diesel engines

## 8 3M™ Novec™ Engineered Fluids

Direct contact battery cooling fluid

## 9 3M™ Performance Label Material

Brake system, body and tire

## 10 3M™ Structural Adhesives

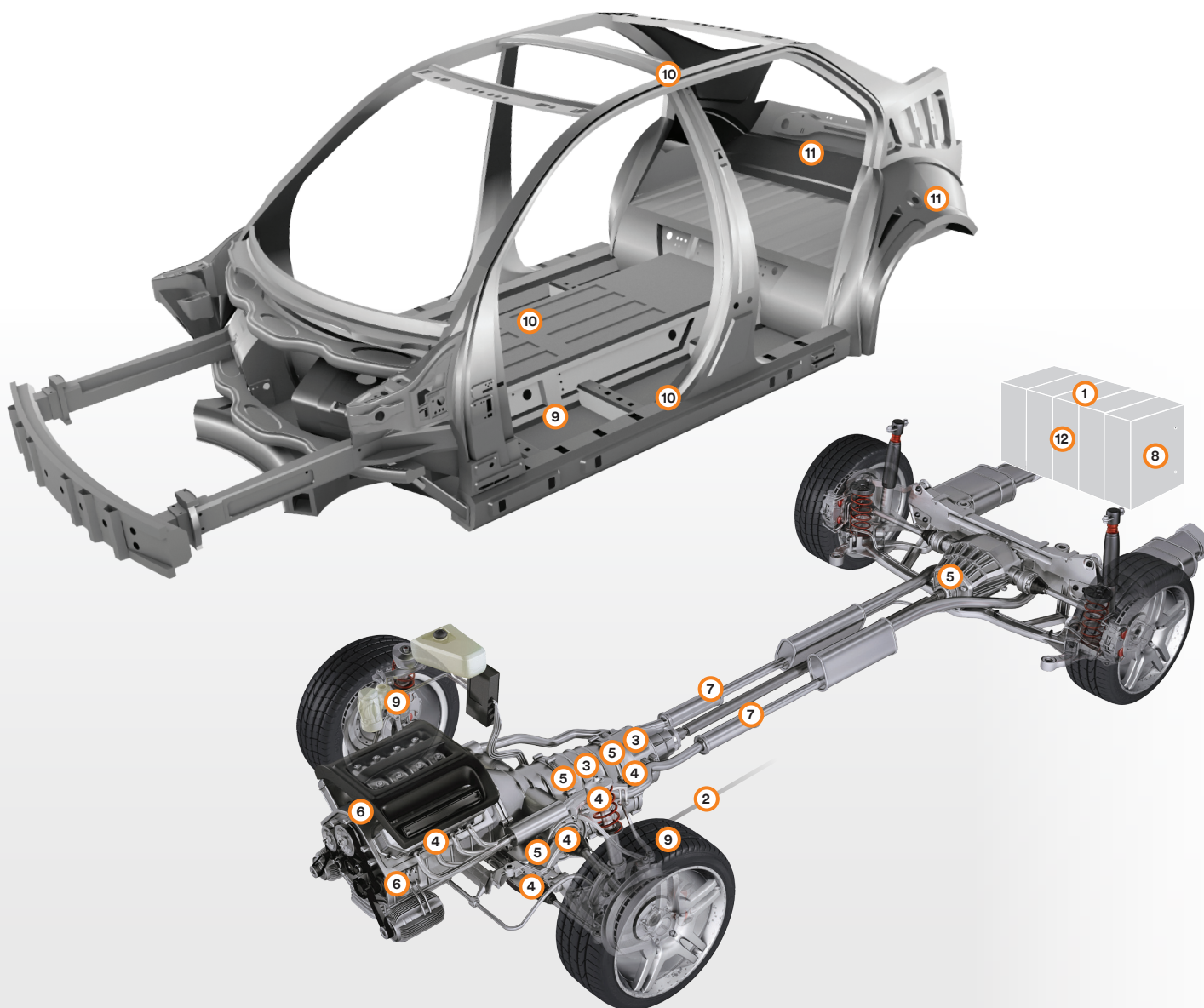
Hem flange, roof bow brackets, isolator

## 11 3M™ Thinsulate™ Acoustic Insulation

Fender liner, doors

## 12 3M™ Thermal Interface Materials

Hybrid, plug-in hybrid and electric vehicle batteries



# Interior

## 1 3M™ Boron Nitride Cooling Fillers

Heat dissipation and transfer for plastic display housings

## 2 3M™ Bumpon™ Protective Products

Glove box, center console, electronic spacer

## 3 3M™ Damping Foil Tapes

Doors, hoods, deck lids

## 4 3M™ Display Enhancement Films

Cluster, center stack

## 5 3M™ Dual-Lock™ Reclosable Fasteners

Headliner, sunroof ring, closeout panels

## 6 3M™ EMI/EMC Electronic Materials

Sensitive electronics and communications, wireless charging

## 7 3M™ Glass Bubbles

Center console, instrument panel, inner door panels

## 8 3M™ Interior Trim Film

Door and instrument panel trim

## 9 3M™ Laminating Adhesive

Low fogging adhesives (seats, headliner)

## 10 3M™ Light String

Doors, instrument panel, headliner

## 11 3M™ Optically Clear Adhesive

Displays, touch panels

## 12 3M™ Performance Label Materials

Warning and security labels

## 13 3M™ Thermal Interface Materials

Heat dissipation

## 14 3M™ Thin Bonding Tapes

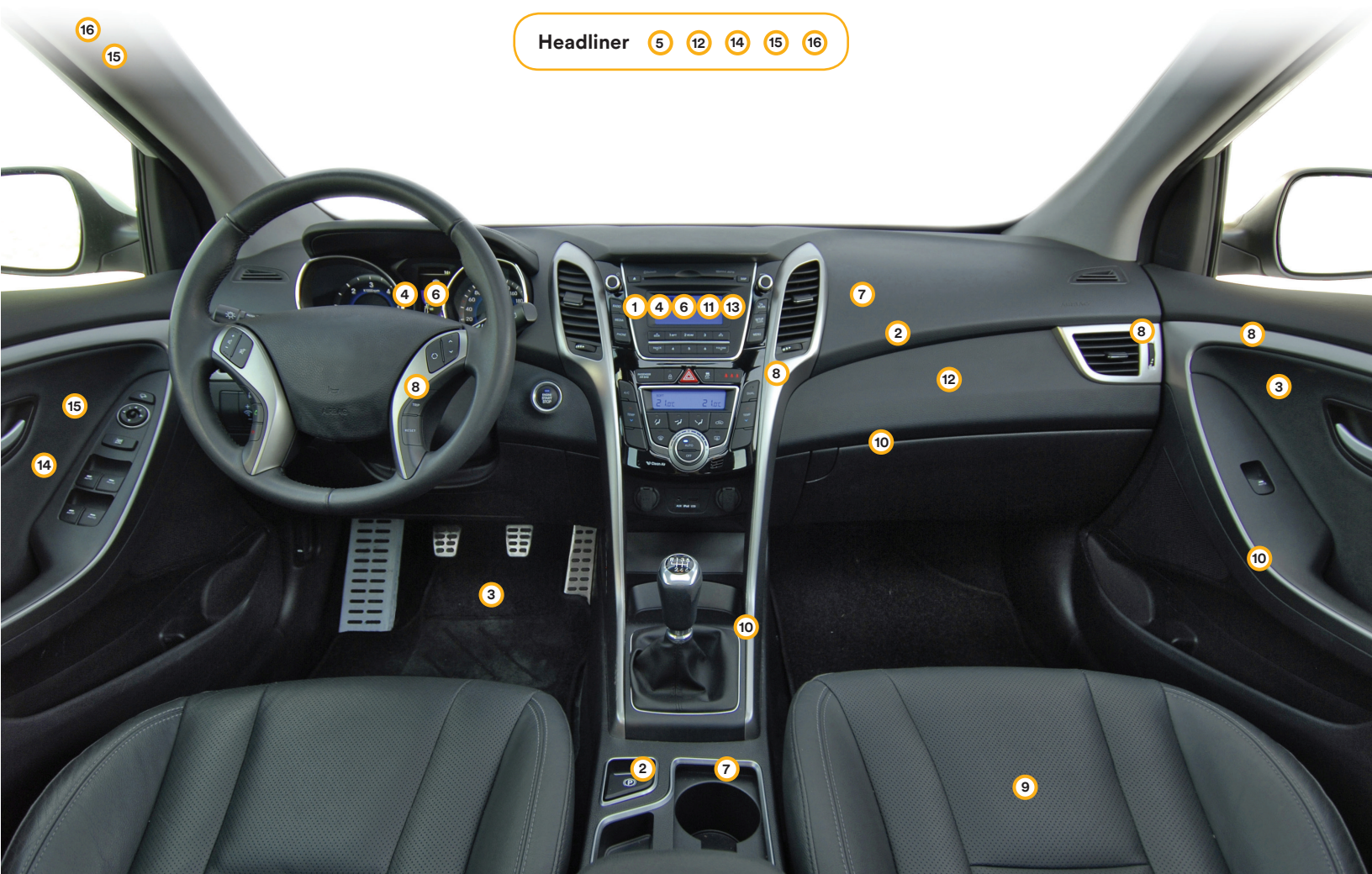
Trim and fabric attachment, buzz squeak rattle, headliner

## 15 3M™ Thinsulate™ Acoustic Insulation

Headliner, package tray, instrument panel, pillars, doors

## 16 3M™ Wire Harness Tapes

Headliner, pillars



Headliner

5

12

14

15

16

# Meet your goals

	Weight Reduction	Passenger Comfort	Quality and Process Improvement	Design Flexibility	Automotive Electrification	NVH Reduction	Powertrain Innovation	Styling and Personalization
<b>Solutions</b>								
Acoustic Insulation	•	•	•	•		•		
Adhesives	•		•	•		•		
Auto Glass Films		•						•
Automotive Attachment Tapes	•		•	•		•		•
Battery Materials	•				•		•	
Bumpons						•		
Display Solutions		•		•	•			•
EMI/EMC Electronic Materials		•		•	•			
Exterior Trim Films	•		•					•
Fastening	•			•		•		
Fluoropolymers							•	
Friction Shims							•	
Glass Bubbles	•		•		•			
Interior Trim Films				•				•
Label Materials			•		•			
Light String			•	•				•
Optically Clear Adhesive		•		•	•			•
Paint Protection Film			•					•
Paint Replacement Film			•	•				•
Structural Bonding Tapes and Adhesives	•		•	•				
Tape Attached Hardware			•	•	•			•
Thermal and Emission Control Systems							•	
Thermal Interface Solutions				•	•		•	
Thermal Management							•	
Thin Bonding Tapes	•	•	•	•	•	•	•	•
Wheel Weights		•	•					

## Global Contact

3M United States  
St. Paul, MN 55144  
1-800-328-1684

## Email:

3MAutomotive@mmm.com

## 3M China

38/F, Maxdo Center,  
8 Xing Yi Road  
Shanghai 200336  
China  
+86 21 62753535

## 3M France

Boulevard de l'Oise  
Cergy Pontoise  
Cedex  
0810 331 300  
01 30 31 64 31

## 3M Germany

Carl-Schurz-Str. 1  
41453 Neuss  
02131 / 14-0  
+49 (0)2131- 14-3580

## 3M Italy

Via Norberto  
Bobbio, 21  
20096 Pioltello  
(Milan)  
800-802145

## 3M Japan Limited

6-7-29 Kita-Shingawa,  
Shingawa-ku,  
Tokyo 141-8684  
+81 3 6409 3800

## 3M Korea

Seoul  
Yeongdeungpo  
Capitol as 82,  
19th Floor  
080-033-4114

**Warranty, Limited Remedy, and Disclaimer:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. User is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



## 3M Automotive

## 3M Center

St. Paul, MN 55144 USA

Phone 1-800-328-1684

Web [mmm.com/autosolutions](http://mmm.com/autosolutions)

Please recycle. Printed in USA © 3M 2016.

All rights reserved.