



## Component Parts for the Automotive Industry

**The move to electrification and the drive to autonomous vehicles can already be seen in new design concepts. Advanced materials are essential for the design of multi-functional displays being built for improved performance.**

Automotive products face a barrage of challenges, including dust and moisture intrusion as well as constant shock and vibration. The viscoelastic properties of **3M™ VHB™** Tape help absorb these dynamic stresses for bond reliability and with no rivets, screws or bolts, it streamlines design, saves weight, speeds assembly and reduces maintenance.



Onboard WiFi hotspot, permits remote control of devices such as, mirror sensors, display backplate, rear wipers etc.

### Thermal Management

The need for Thermally Conductive parts can be found in many items: Electrically-conductive elastomers are recommended for automotive keypad applications including:

- Navigation system
- Pushbutton starting
- Cruise control
- Radio functions
- Heating system



Clean Room component production.

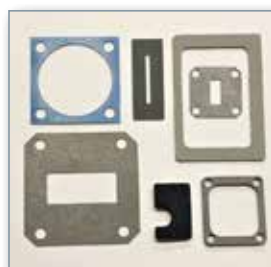
### EMI/RFI Shielding

There is an ever increasing need for EMI/RFI Shielding, in order to ensure that electromagnetic interference is eliminated throughout a vehicle. Applications can be found in advanced driver-assisted systems (ADAS).



### Electrical Insulation, Bonding & Gasketing Solutions

Die-cut parts produced to demanding specifications of temperature endurance and mechanical resilience are available for prototype evaluation and for mass production. The ideal adhesive for bonding can be integrated into your design.



### Assembly of Optical Lenses & Display Backplate



Pronat has a niche capability to construct lens assemblies by selecting optical films of varying properties and laminating with optical adhesives.

Thermally conductive pads designed for LEDs of automotive lighting, can double the operating life of a lamp.