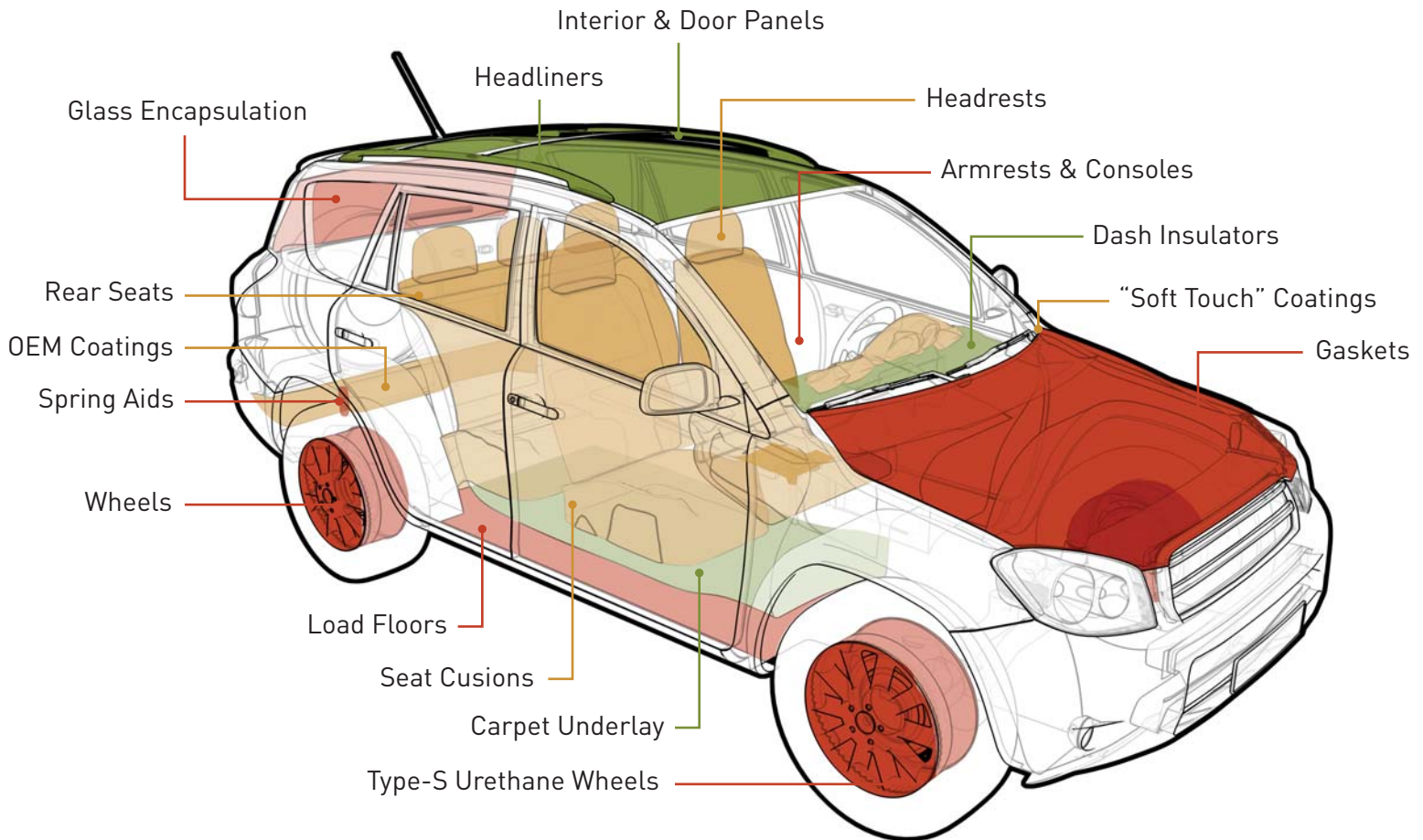


DIISOCYANATES AUTOMOTIVE APPLICATIONS



Diisocyanates (DII) are used to make many types of polyurethane products found throughout automobiles. Polyurethanes made with DII chemistry can help make vehicles stronger, lighter, and more comfortable.



CUSHIONING

Flexible polyurethane foam made from diisocyanates provides cushioning and comfort in seats, armrests & headrests. Flexible polyurethane foam is durable, retaining its shape over time to keep cars comfortable for drivers and passengers. "Soft touch" coatings on interior components, like the instrument panel, steering wheel, gear shift knob, door trim and interior coatings can also use polyurethanes to enhance their performance and feel.

COMFORT

An excellent insulation material, polyurethanes made with DII chemistry are used to line and insulate a car's carpet underlay, dash insulators, headliners & door panels. This helps to regulate the car cabin's temperature and to create a comfortable driving experience. It can also help reduce noise for a quieter drive. Additionally, window seals and shock absorbers made with DII chemistry make a car more comfortable for drives long and short.

ENERGY EFFICIENCY

With its lightweight strength, polyurethane used in many places in the vehicle helps make cars lightweight and more fuel-efficient. For example, seat frames made from molded polyurethane foams can be 35 percent lighter than metal stamped frames. And polyurethane and epoxy systems, which also use DII chemistry, are used in bumpers for their good strength-to-weight ratio. In addition, DII chemistry contributes to door panels, bumpers, exterior panels, coatings and adhesives, cable jackets for protection, brake tubes, gaskets, and tire fill for fixing flat tires.