



Automotive Applications

Driving quality plastic compounds in automotive applications

Ravago Manufacturing is a global producer of high-quality plastic compounds including polyolefins, thermoplastic elastomers, rubbers and engineering plastics. We offer both virgin and recycled grades in many polymer types, and have extensive knowledge and expertise in the plastics industry. We work together with our customers to deliver solutions for their most demanding application needs.

Our automotive portfolio

With the average car now containing 200 to 250 kg of plastic, choosing the right plastic compounds is more important than ever before to ensure that OEMs meet the aesthetic and performance requirements that will make consumers satisfied.

Our portfolio for automotive applications offers a wide range of polymer types with different compositions and performance characteristics, allowing you to choose the optimum grade for your interior, exterior or under-the-hood parts.

We have been supplying the automotive industry for the last 60 years, working closely with every supplier in the value chain, right up to OEMs, to deliver performance, quality and sustainability.

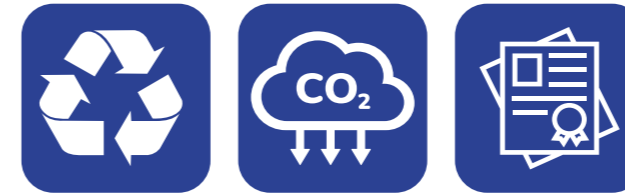


Tested and approved by OEMs

As a testament to the high quality and reliability of our products, we have approvals from most major OEMs for a wide range of grades and applications.

We offer a full range of products and services such as:

- Recycled grades that fulfill emission and odor requirements for interior applications
- Performance enhancements (anti-scratch, anti-squeak, flame retardant...)
- Custom colors and color matching of virgin and recycled grades
- Moldflow analysis and CAE data for main grades
- Unified global grade specifications, also for recycled grades
- Grade development for unique requirements



The sustainable choice

Sustainability has been at the heart of Ravago since we began recycling plastics back in 1961. Since then, we have continued to evolve to offer more sustainable solutions to lower the carbon footprint of our partners and customers.

With more stringent regulations expected to come into force within Europe that will affect the automotive market, such as the End-of-Life Vehicles (ELVs) Directive and the Green Claims Directive, it has become increasingly important for OEMs to not only seek more environmentally friendly materials such as recycled plastics, but also to validate sustainability claims to make them reliable, comparable and verifiable across the EU.

To complement our extensive portfolio of recycled plastic compounds, we offer QA-CER and RecyClass recycled content certifications, as well as product carbon footprint statements that can be used by automotive manufacturers in their own carbon footprint calculations.

Increase your PCR content with Ravapura®

The Ravapura® range of compounds is the ideal solution to incorporate post-consumer recycled plastics into injection molded parts. We select the best recycled feedstocks to deliver the highest quality polypropylene (PP) and acrylonitrile butadiene styrene (ABS) compounds and reduce the environmental impact of automotive applications.

Ravapura® PP

These compounds contain post-consumer recycled PP from end-of-life vehicles, with additional post-industrial recycled PP to maximize the total recycled content up to 80%. This means that they will not only comply with the proposed Directive on End-of-Life Vehicles that is expected to come into force soon in Europe, but they also support the reuse of valuable automotive plastic parts. Ravapura PP grades are available unfilled, glass fiber or talc filled, with impact modified, heat resistance and UV stabilization options. They are available in black and designed for automotive use in interior, exterior and under-the-hood applications.

Ravapura® ABS

With 30% PCR content, the Ravapura ABS compounds boost PCR content whilst maintaining excellent performance and aesthetic properties. They are available with high or medium heat resistance, and medium or low gloss to meet different application requirements. Ravapura ABS automotive compounds are available in black and dark grey and are designed and approved for use in automotive interior applications.

Our automotive portfolio

		Type			Composition & Performance								Typical Applications				
		Virgin	Recycled (Pre-use)	Recycled (Post-use)	Unfilled	Glass Filled	Mineral Filled	Flame Retardant	UV Stabilised	Heat Resistant	Impact Modified	Anti-static	Custom Color	Interior	Exterior	Under-the-hood	Electric Parts
Polyolefins	Ravapura® PP			●	●	●	●	●	●	●				●	●		
	Mafill® PP		●		●	●	●	●	●	●	●	●	●	●	●	●	●
	Scolexin® PP	●			●	●	●	●	●	●	●	●	●	●	●	●	●
	Ravaplen® PP	●	●		●	●	●		●	●	●	●	●	●			
Engineering Plastics	Ravapura® ABS			●	●	●		●	●				●				
	Sicoflex® ABS (ECO)	●	●		●	●	●	●	●		●	●	●	●			
	Mablex® PC/ABS (ECO)	●	●		●	●		●	●				●	●		●	
	Sicoklar® PC (ECO)	●	●		●	●		●	●				●	●		●	
	Tristar® PC	●			●	●		●	●				●	●		●	
	Sicoblend® PA/ABS	●			●	●		●					●				
	Polyfast® ASA	●			●	●		●	●				●	●			
	Hylon® PA6 & PA66	●			●	●	●	●	●	●	●		●	●	●	●	●
	Ravamid® PA6 & PA66		●		●	●	●	●	●	●	●		●	●	●	●	
	Enester® PBT & PBT/PET (ECO)	●	●		●	●		●	●		●		●	●	●	●	●
Ravago PPS	●				●		●							●	●		
Thermoplastic Elastomers & rubbers	Ensoft® TPE-S	●	●		●		●	●	●		●	●	●	●	●	●	●
	Sconablend® TPE-S	●			●		●	●	●		●	●	●	●	●	●	●
	Enflex® TPE-V & TPE-O	●	●		●		●	●	●		●	●	●	●	●	●	●
	EZPrene® TPE-V	●			●		●	●	●		●	●	●	●	●	●	●
	Ravathane® TPE-U	●			●	●		●	●		●		●	●	●		
	Ravaflex® rubbers		●		●		●							●	●		



Enhanced performance in a wide range of applications

We have a full-service portfolio of brands available that are suitable for use in automotive applications including polyolefins, engineering plastics, thermoplastic elastomers and rubbers.

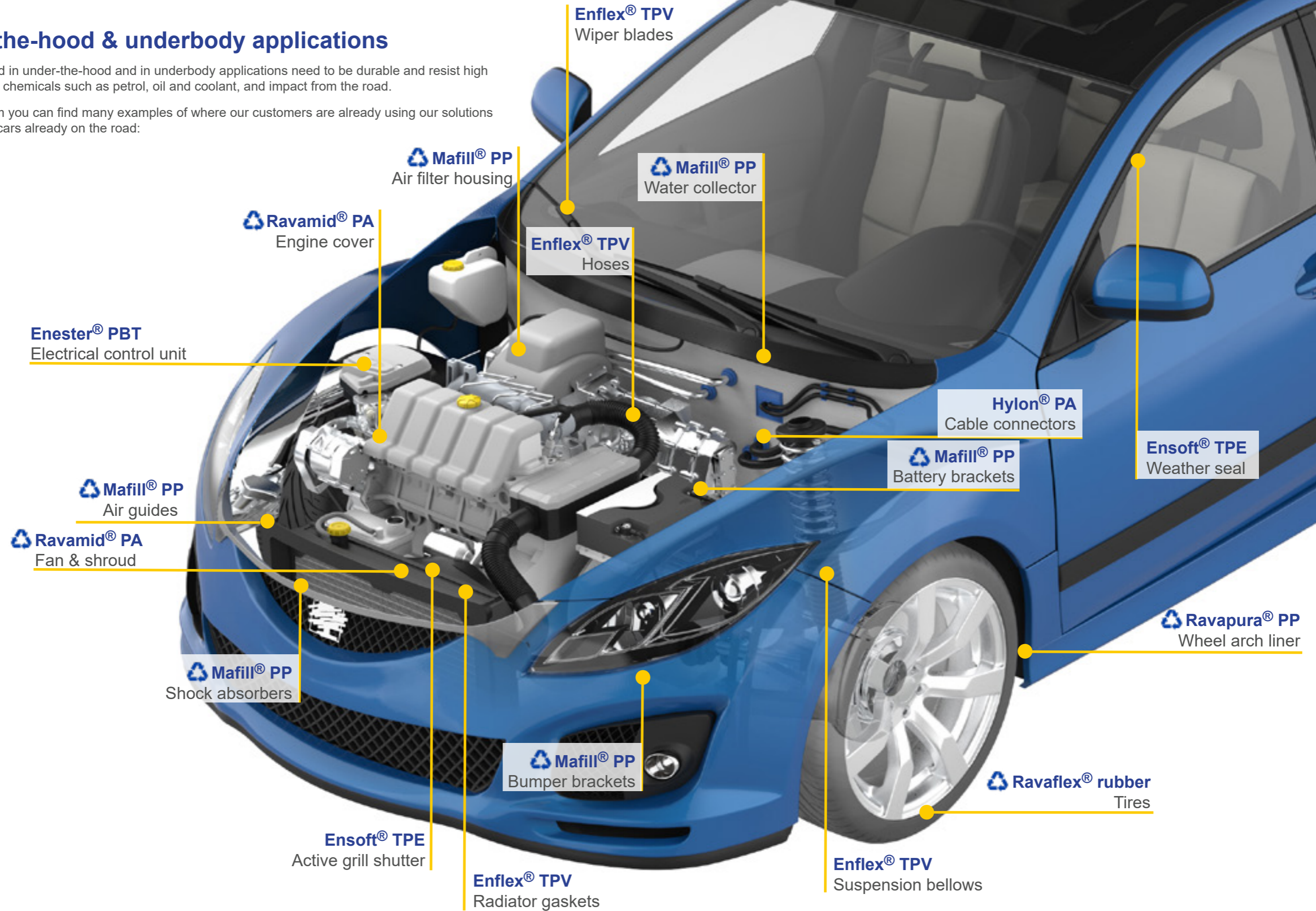
Choose from virgin, post-industrial recycled or post-consumer recycled compounds depending on the requirements of your application.



Under-the-hood & underbody applications

Polymers used in under-the-hood and in underbody applications need to be durable and resist high temperatures, chemicals such as petrol, oil and coolant, and impact from the road.

In this diagram you can find many examples of where our customers are already using our solutions in a series of cars already on the road:

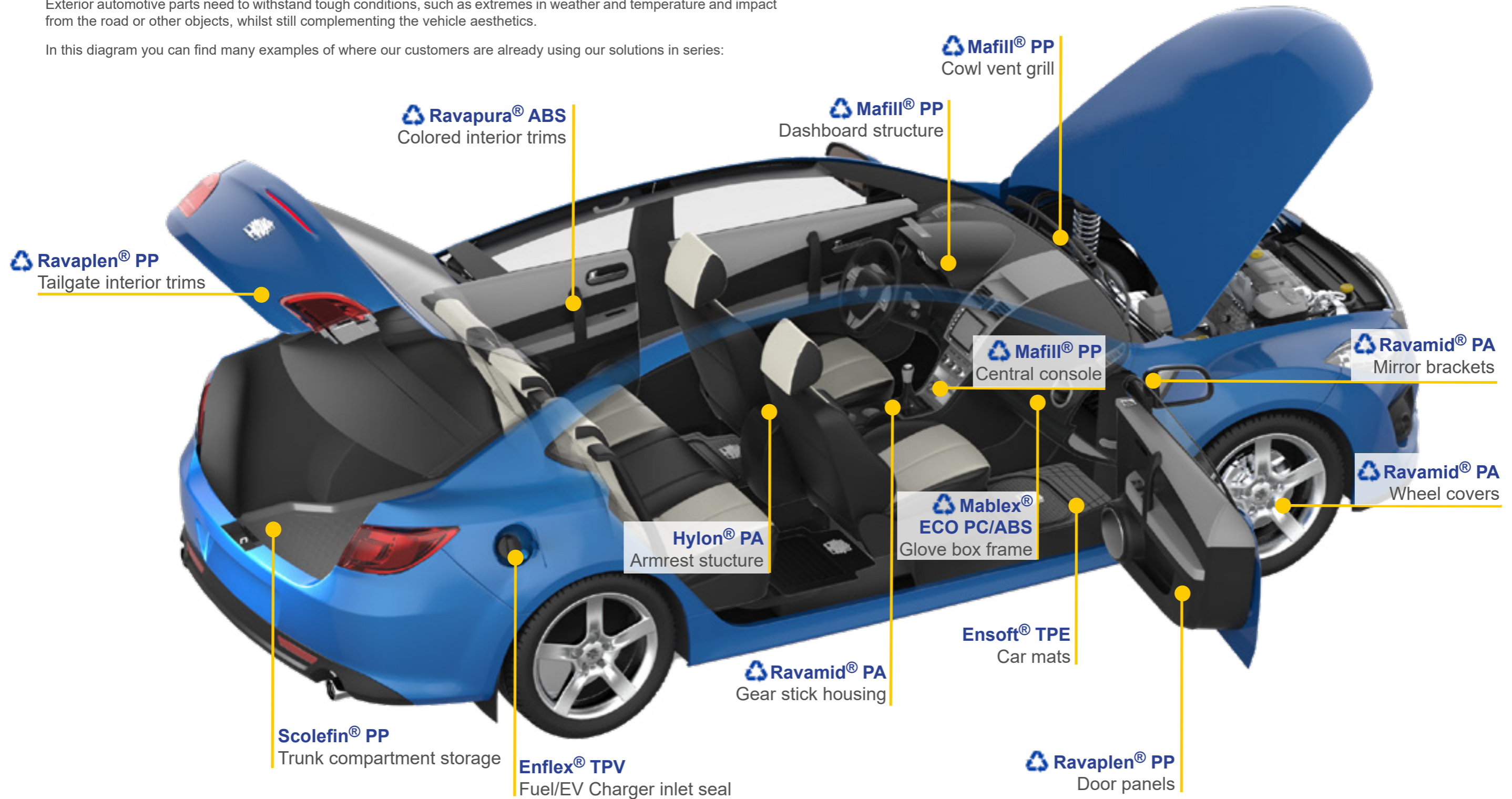


Interior & exterior applications

Vehicle interiors need to be durable and maintain aesthetic performance throughout their lifetime so plastic parts require scratch and impact resistance, excellent surface finish and color matching to brand owner specifications. Plastic compounds should offer good processability and low warpage or shrinkage to ensure efficiency and consistency during the production process. We offer products that meet emissions, odor and surface finish requirements for use in visible interior parts, as well as high impact and high stiffness products for non-visible structural or functional parts.

Exterior automotive parts need to withstand tough conditions, such as extremes in weather and temperature and impact from the road or other objects, whilst still complementing the vehicle aesthetics.

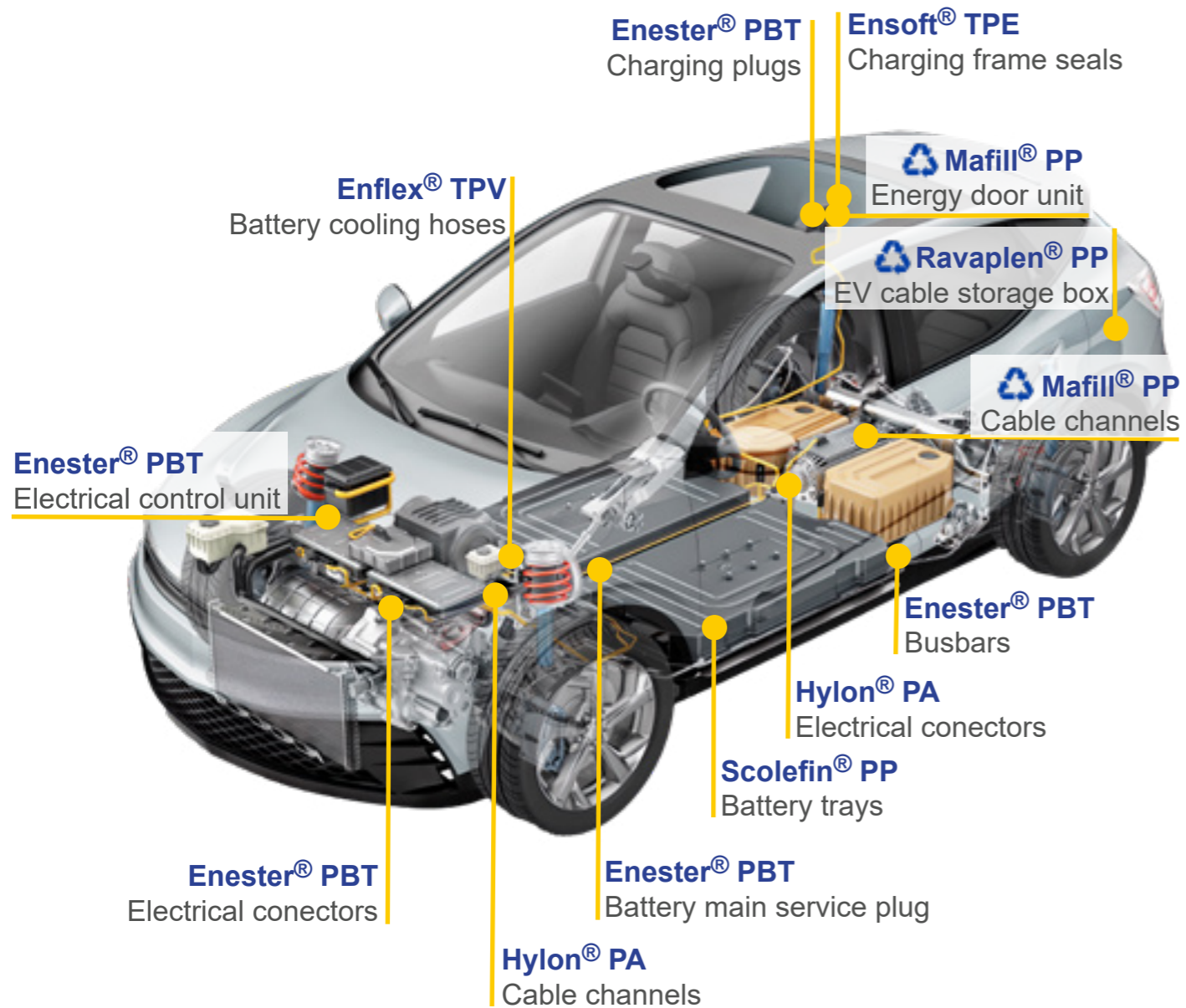
In this diagram you can find many examples of where our customers are already using our solutions in series:



Electric vehicle applications

Many environmentally conscious consumers are making the switch to hybrid or fully electric vehicles, and this trend is expected to continue. Manufacturers need to offset the heavy weight of batteries by reducing weight elsewhere, making plastics the ideal choice for as many parts as possible.

In this diagram you can find many examples of where our customers are already using our polymers in EV applications:



Why choose Ravago?

- Experts in recycling (PIR & PCR) and in compounding for over 60 years
- Best in class manufacturing process and quality
- Extensive production capacity for supply of large volumes
- Global industrial presence making local sourcing available where you are
- Full-service portfolio of both virgin and recycled solutions
- Large portfolio of colors and new color development support
- Custom-made compounds and blends





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