

Connecting you to Solutions for the Automotive Market

For availability and orders:
www.nexeoplastics.com



AUTOMOTIVE

Our **automotive team** has extensive market knowledge to provide application and supply chain solutions. In partnership with our suppliers we cover the whole range of plastic automotive applications and form a seamless entity delivering materials when and where you need them. We have built a specialized team of sales representatives concentrating on automotive products and backed them up with knowledgeable senior technical service and customer service representatives to ensure the best possible service to meet your needs.



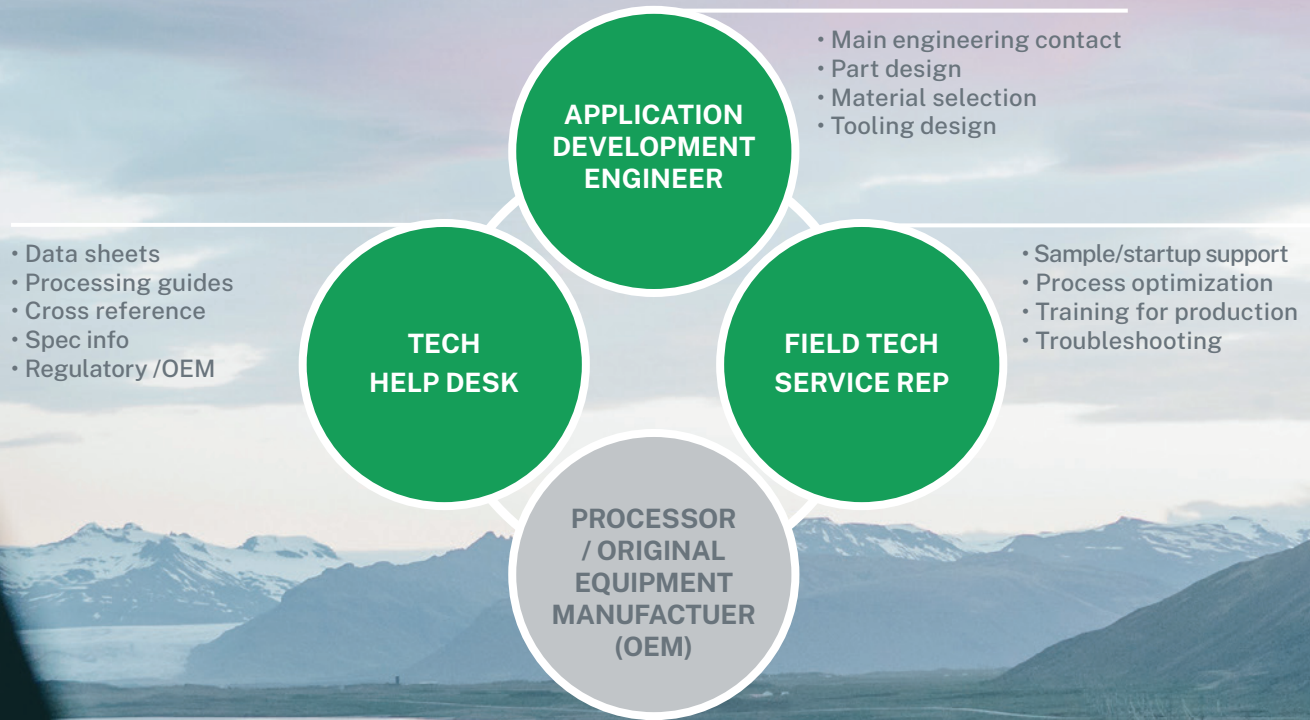
Our team offers

- Material selection
- Assistance in part design
- Concurrent engineering approach to program management
- Process optimization
- Specialized technical service including application problem solving
- Plastanalisi®: Plastic testing laboratory with high-level analysis of plastics

Look to Nexeo Plastics for

- Consolidated material sourcing
- Locally stocked automotive grades – available for just-in-time delivery
- Automotive approved colors, salt and pepper color blending services
- Global customer and project coordination

TECHNICAL AND DEVELOPMENT SOLUTIONS



PROVIDE TRANSACTIONAL EFFICIENCIES

- **Tailored Account Customer Service**
 - Aligned customer service resources to satisfy customer requirements and business strategy
 - Manage customer pricing and supply
- **Tailored Inventory management systems**
- **Dedicated Corporate Account Pricing Administrators**

MATERIAL EXPERTISE

FOR DIVERSE AUTOMOTIVE SEGMENTS

E-MOBILITY

Electro mobility (or e-Mobility) represents the concept of using electric powertrain technologies, in-vehicle information, and communication technologies and connected infrastructures to enable the electric propulsion of vehicles and fleets. **E-mobility** brings supplementary requirements for the flame retardancy of the new components used in the car, as well as weight reduction, mechanical strength and asks for extreme noise cancelation, now when the engine is loud-less.



PERFORMANCE CONSIDERATIONS

- Flame retardant components
- High temperature resistance
- Chemical/media resistance to coolants & other car fluids
- Electro-compatibility / insulation
- Noise reduction (elastomers)

TYPICAL APPLICATIONS

- Battery components (holder, case)
- Battery module enclosure
- Battery pack cover
- Charging infrastructure
- Connectors/ cable management
- Thermal management (water pump, fitting, heater, pipes)
- E-motor components (stator/rotor, end caps, bus ring, connector support)
- Electric Power train (high voltage housing, fuse boxes, connectors & inlets)

SUSTAINABLE MATERIALS

A **sustainable polymer** is a plastic material that addresses the needs of consumers without damaging our environment, health, and economy. Automotive industry is on the forefront of the change towards sustainable solutions and looks for sustainable materials and a design for easier de-assembling after car-life. The huge environmental benefit of recycling is that fewer virgin raw materials are needed for the manufacturing of new products. Furthermore, recycling reduces pollution that is caused by discarding or burning waste.

PERFORMANCE CONSIDERATIONS

- Almost same mechanical/ physical properties as virgin material at comparative prices
- Reduce a the virgin waw material amount in a car (25-50%)
- Bio-Polymers (from 2nd generation bio feedstock) or Wood-based
- Biodegradable plastics made from traditional petrochemicals, which are engineered to break down more quickly.
- Recycled materials (from both Mechanical & Chemical Recycling) from Post Consumer Recycling PCR or Post Industrial Recycling PIR
- Ocean Bound Plastics (collected within 30 km from the Ocean or rivers)

TYPICAL APPLICATIONS

- Several exterior components of the car (body panels, rocker panels, grills, bumpers)
- All kind of interior applications even with severe emission restrictions (door panels, seat parts, glove box)



EXTERIOR

This area encompasses exterior applications that include devices such as bumpers and grills, body and rocker panels, mirrors and front end carriers. These devices require high performances in both security and aesthetics since usually they are the first barrier in case of impact and the first and most visible part of the vehicles.

PERFORMANCE CONSIDERATIONS

- High UV stability
- High surface aesthetics
- Excellent paintability
- Dimensional stability
- Impact resistance
- Stiffness

TYPICAL APPLICATIONS

- Bumpers
- Body panels
- Rocker panels
- Mirrors
- Front end carriers
- Wheel covers



INTERIOR

The interior part components of the vehicles are very important to provide comfort and security to the passengers through including devices with excellent heat stability, scratch resistance, “soft touch” or low stickiness. The interior includes devices such as instrument panel, door panel, mid console, glove box and seat parts among others.

PERFORMANCE CONSIDERATIONS

- Surface quality
- Scratch resistance
- Low VOC optimization
- Low gloss
- Low stickiness
- Impact/Stiffness balance
- Dimensional stability

TYPICAL APPLICATIONS

- Instrument panel
- Door panels
- Glove box
- Seat parts
- Mid Console



MATERIAL EXPERTISE

FOR DIVERSE AUTOMOTIVE SEGMENTS

UNDER THE BONNET

This area is extremely sensible to changes in temperature, chemical products exposures and demanding acoustic environments during long periods of time. For this reason, devices included in that area have to excel in that conditions and at the same time show a good image.

PERFORMANCE CONSIDERATIONS

- Long term high heat resistance
- Chemical resistance
- Acoustic behaviour
- High mechanicals

TYPICAL APPLICATIONS

- Beauty/Engine cover
- Air intake manifolds
- Battery cases
- Cooling liquid container
- Air fans
- Battery carrier



ELECTRICAL & ELECTRONIC

Excellent electrical and electronics devices is a must have in order to assure the quality and security of the vehicles produced. For this reason, all the devices in that area have to excel in security conditions along all the product life. For example, devices such as cable channels and fuse boxes have to shine in performances in flame retardancy and keep its properties even in difficult environments with prolonged periods of time.

PERFORMANCE CONSIDERATIONS

- Flame retardancy
- Long life time cycles
- Electrical properties
- Heat ageing resistance

TYPICAL APPLICATIONS

- Power windows
- Sun roofs
- Locking systems
- Cable Channels
- Fuse boxes
- Cables)



STRUCTURAL PARTS

As well as the exterior and interior area of the vehicles, the structural parts have to perform in excellent security and stability conditions along the product life time.

PERFORMANCE CONSIDERATIONS

- Impact resistance
- Stiffness
- Dimensional stability
- Weight reduction

TYPICAL APPLICATIONS

- Clutch pedal carrier
- Pilars
- Window frames
- Front end carrier
- Gear lever housing
- Seat structure



OUR PRODUCTS

LINE CARD

ENGINEERING THERMOPLASTICS

Product	Subproduct	Brand Name	Producer
ABS		Magnum*, Magnum* Bio ABS¹ (Bio-based) , Ultraflow*	TRINSEO
		ReNy*	MITSUBISHI
PA4.6		Stanly*	DSM
PA6		Akulon*, Ultraflow*	DSM
	Compounds	Recoone 22G30 BK105	KINGFA
PA66		Akulon*	DSM
	Compounds	Recoone 12G30 BK102	KINGFA
PBT		Arnite*	DSM
PC		Xantar	MITSUBISHI
PC/ABS		Pluse*, Emerge, Pulse* Eco³	TRINSEO
		Xantar*C	MITSUBISHI
PET		Arnite*	DSM
POM		lupital*	MITSUBISHI
PPA		ForTii*, ForTii Ace*	DSM
PPS		Xytron*	DSM
TPC		Arnitel*	DSM
Colour Masterbatch			TRINSEO

STANDARD THERMOPLASTICS

Product	Subproduct	Brand Name	Producer
PP	Homopolymer		BOREALIS
		Bornewables*¹ (Bio-based), Borcycle*²	BOREALIS
	Copolymer		BOREALIS
		Bornewables*¹ (Bio-based), Borcycle*²	BOREALIS
	Random Copolymer	Borpact*, Borpure*, Bornewables*¹ (Bio-based)	BOREALIS
	Compounds	Borcom*, Fibremod*, Daplen*, Borcycle*², Bornewables*¹ (Bio-based)	BOREALIS
		Inspire*, Velvex*	TRINSEO
	LGF	Fibremod*	BOREALIS
Enlite*		TRINSEO	
PE	LDPE		BOREALIS
		Bornewables*¹ (Bio-based)	
	LLDPE/mLLDPE	Borstar*	BOREALIS
	HDPE	Borpure*	BOREALIS

⁽¹⁾ Mass balanced

⁽²⁾ Post Consumer Recyclate

⁽³⁾ Post Industrial Recyclate

* Trademark or Registered Trademark owned by a third party

OUR SUPPLIERS

FOR EUROPE



NEXEO PLASTICS Europe

Nexo Plastics prides itself on providing its Customers with:

- Superior customer service (ISO certified)
- Broad product portfolio from world-class manufacturers
- Competitive pricing
- Geographic coverage
- Strong / long-term relationships
- Small / medium / large quantities
- Technical expertise in end applications
- Flexibility to meet changing demand
- Efficient management & available inventory

- ◆ Warehouses
- Sales office



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