Innovation and modern technology prepared for tomorrow’s needs

Chemicals

Polyolefins for the Automotive Industry
Repsol
A universal response for the automotive industry

Repsol is an integrated oil and gas company with presence in the whole energy value chain, including exploration, production, refining, transport, chemicals, and new energies. The company has specialised in deep water exploration for hydrocarbons, providing some of the world’s largest finds in recent years.

In its Chemicals activity, Repsol manufactures and markets a wide variety of products, ranging from base petrochemicals to derivative, benefiting from a high degree of integration with the group’s oil refining division.

It is on the basis of this integration and its strategy of constantly generating value that Repsol has succeeded in securing its customers’ trust, with highly innovative products and services, ensuring a measure of sound business growth in the medium and long term, and marketing its products in more than 95 countries. Base petrochemicals produces ethylene, propylene, butadiene and benzene.

Derivative chemical production includes:

- Polyolefins, embracing polypropylene (PP) and its compounds, both high and low-density polyethylene (HDPE and LDPE), as well as ethylene vinyl acetate (EVA) and ethylene butyl acrylate (EBA) copolymers.
- Intermediate products, including propylene oxide (PO), styrene (SM), polyether polyols for rigid and flexible foams, CASE polyols and propylene glycols.
- Synthetic rubbers, comprising hydrogenated rubbers (SEBS), thermoplastics (SBS) and solution-based styrene butadiene rubber (SSBR).

The products from Repsol’s Chemicals Division are used to manufacture everyday articles which improve people’s quality of life, wellbeing and safety.

The quality of our products is tested in professional motorsports, and in the world’s most demanding markets.

Repsol in the world
We sell our products in more than 95 countries.
Innovation, experience and development for an industry that moves the world

- Repsol has a long tradition in supplying products to the automotive industry, from fuels and motor oils to polyolefins (polypropylene and polyethylene) and polyols for rigid and flexible foams.

- Our experience and commitment enable us to provide the motor industry with a wide range of products, which we are equipped to supply worldwide.

- Our unique range of polyolefins is technically adapted to each market and each manufacturer, to make our customers supremely competitive.

- We approach OEMs and automotive suppliers, combining all needs to obtain the best performance to ensure the highest value all through the supply chain.

**Interior**
- Low emissions.
- Thermal & UV stability.
- Excellent scratch resistance.
- Aesthetics.
- All colour range.

**Exterior**
- Stiffness and high impact resistance.
- Resistance to UV and heat.
- Good behaviour at low temperatures.
- Low density materials for lighter parts.

**Tanks**
- HDPE Fuel tanks according to PlasFuelSys guidelines.

**Under-the-hood**
- Very high stiffness.
- Dimensional stability under high heat load.
- Reduced warpage.
- Excellent chemical resistance.
We answer the principal market trend: our customers’ needs

As a polyolefins manufacturer, Repsol guarantees the quality of the raw materials and offers its customers the full potential of its technology to develop new materials. Repsol has over 25 years of experience developing polypropylene compounds.

Repsol’s facilities include a polypropylene pilot plant, with an innovative design and high versatility. This pilot plant is a key element when exploring new process conditions, reaction parameters, catalysts… while it allows for innovative development and shorter time-to-market cycles.

Additionally, Repsol has several extrusion lines with different size and configurations that allow the company to offer the market an extensive range of materials and technical possibilities.

Innovation and modern technology prepared for tomorrow’s needs

Repsol’s Research Centre, just outside Madrid, is one of the most advanced in Europe.

With 400 researchers busily creating the future inside a 14-acre facility. Their work within the automotive industry focuses on:

- Repsol’s flexibility allows for agile implementation of technical solutions.
- Our facilities have the necessary equipment to undergo the tests required by the OEMs for homologations.
- We are experts in developing specific aesthetic properties and colours, and we ensure the standards throughout the total project life.

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**Material description**

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<tr>
<th>Material description</th>
<th>Grade</th>
<th>Density</th>
<th>MFI</th>
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This table is a sample of our portfolio. All materials are available in different grades and properties (colours, MFI, scratch resistance, etc.).
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