Fibers
Polyethylene and polypropylene
Repsol. A global multi-energy company

With over 8 decades of experience
It is leading the energy transition with its ambition of achieving zero net emissions by 2050.

Present throughout the energy value chain, the company employs 24,000 people worldwide and distributes its products in nearly 100 countries. Its customer-focused product and services portfolio meets all consumer needs of around 24 million customers, whether at home or on the move.
Repsol manufactures a wide variety of products, ranging from base petrochemicals to derivatives. Base petrochemicals: ethylene, propylene, butadiene, and benzene. Intermediate products: styrene, propylene oxide, polyether polyols, and propylene glycols. Polyolefins: polypropylene (PP) and PP compounds, both high and low-density polyethylene (HDPE and LDPE), metallocene linear low density polyethylene (mLLDPE), ethylene vinyl acetate (EVA), and ethylene butyl acrylate (EBA) copolymers.

Over 1,500 references
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Over 100 scientists and researchers working for you
Repsol’s commitment to R&D is evidence of the company’s aim to attain business excellence to meet future horizons.

Over 95 Countries where we market our products

Added value
Repsol’s Chemicals Division, with a high degree of integration, focuses its strategy on the constant generation of value through differentiated products and services. We are committed to our customers’ global strategy putting our entire organization at their disposal to achieve a common goal: to create long-term relationships which enable us to rise to the common challenges our business presents.
At Repsol, we believe in the circular economy, and we run specific projects that minimize the environmental impact of our materials. To this end, we are committed to making our industrial processes increasingly efficient and reducing the carbon footprint of our polymers.

We have a specialized circular economy department dedicated to recycling post-consumer materials to drive development of new materials offering solutions based on innovative polyolefins with recycled content.

We use recycled plastics in critical applications, creating new markets for plastic waste and driving circularity by giving that waste a new use. As a result, we offer a wide range of polyolefins with recycled content that deliver excellent engineering performance.

We have circular polyolefins obtained by incorporating pyrolysis oil, from chemically recycled plastic waste not suitable for mechanical recycling, together with virgin feedstock into our petrochemical process, reducing the consumption of non-renewable resources.

These circular polyolefins have the same properties and quality as virgin material and hold Food Contact Approval. We have obtained ISCC PLUS certification for circular and traceable polyolefins that use plastic waste as raw material. Moreover, our wide range of polyolefins is 100% recyclable.

Our ambition is to recycle the equivalent of 20% of the polyolefins we produce to support, in conjunction with the other initiatives in Repsol's circular economy strategy, the goal we announced in December 2019: to reach net zero emissions by 2050.

To contribute to the company’s emissions neutrality goal, our chemicals business has launched its 3030 Plan, intended to cut our carbon intensity by 30% by 2030.

Advancing the circular economy and lowering carbon intensity in our chemicals business will contribute towards transforming Repsol's industrial operations, as well as developing high-value-added raw materials, making it possible to manufacture an infinite number of products that improve human well-being, safety, and quality of life while enhancing the environment.
## Polyethylene

### Repsol Alcudia

<table>
<thead>
<tr>
<th>Grade</th>
<th>MFI</th>
<th>Density</th>
<th>Polydispersity</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>R4806HT</td>
<td>0.65</td>
<td>948</td>
<td>Narrow, very high tenacity.</td>
<td>Blown film for stretched raffia. High speed textile lines raffia for nets, and ropes.</td>
</tr>
<tr>
<td>R4805EP</td>
<td>0.55</td>
<td>948</td>
<td>Medium.</td>
<td></td>
</tr>
<tr>
<td>M5206</td>
<td>0.60</td>
<td>952</td>
<td>Narrow, very high tenacity.</td>
<td>Monofilament for textile applications, nets, and ropes.</td>
</tr>
<tr>
<td>M5309</td>
<td>0.95</td>
<td>953</td>
<td>Medium tenacity, soft yarns.</td>
<td></td>
</tr>
</tbody>
</table>

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### Repsol Isplen

<table>
<thead>
<tr>
<th>Grade (*</th>
<th>MFI</th>
<th>Key properties</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP015G3E</td>
<td>0.8</td>
<td>Greater tenacity.</td>
<td>High tenacity strappings, thermoforming, profiles.</td>
</tr>
<tr>
<td>PP020G3E</td>
<td>1.0</td>
<td>High tenacity.</td>
<td></td>
</tr>
<tr>
<td>PP030G1E</td>
<td>1.7</td>
<td>Good mechanical properties.</td>
<td>High tenacity raffia and monofilaments, extruded nets, twines, and ropes.</td>
</tr>
<tr>
<td>PP031G1E</td>
<td>2.2</td>
<td>Good balance of processability and properties.</td>
<td></td>
</tr>
<tr>
<td>PP040G1E</td>
<td>3.0</td>
<td>Good balance of processability and properties.</td>
<td>Raffia textiles, monofilaments, and ropes.</td>
</tr>
</tbody>
</table>

* All our portfolio is phthalate free

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Polypropylene - Nonwoven Textiles

Repsol Isplen

<table>
<thead>
<tr>
<th>Grade (*)</th>
<th>MFI</th>
<th>Key properties</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP051Y1E</td>
<td>4</td>
<td>Good mechanical properties, high tenacity fibers.</td>
<td>Raffia and monofilaments for general purposes. Very high tenacity staple fiber.</td>
</tr>
<tr>
<td>PP086Y3E</td>
<td>25</td>
<td>Narrow MWD, gas fading resistance.</td>
<td>Continuous filament high speed lines (BCF/CF), partially oriented yarn (POY), technical nonwoven and low title hygienic fabrics, spunbonded, and staple fibers.</td>
</tr>
<tr>
<td>PP086U6E</td>
<td>25</td>
<td>Narrow MWD, UV light resistance, gas fading resistance.</td>
<td>Continuous filament high speed lines (BCF/CF), partially oriented yarn (POY), technical nonwoven and low title hygienic fabrics, spunbonded, and staple fibers.</td>
</tr>
<tr>
<td>PP089Y1E</td>
<td>31</td>
<td>Narrow MWD, gas fading resistance.</td>
<td>Continuous filament high speed lines (BCF/CF), partially oriented yarn (POY), technical nonwoven and low title hygienic fabrics, spunbonded, and staple fibers.</td>
</tr>
<tr>
<td>NW080M4</td>
<td>800</td>
<td>Fine fibers, filtered, narrow MWD.</td>
<td>Melt blown, filtration, hygienic applications.</td>
</tr>
<tr>
<td>NW110M4</td>
<td>1100</td>
<td>Fine fibers, filtered, narrow MWD.</td>
<td></td>
</tr>
</tbody>
</table>

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Repsol’s Values

Excellence is intrinsic to Repsol’s values. It infuses our daily work and helps guide our decisions and actions, contributing to achieving the commitment to our customers, stakeholders, employees, suppliers/partners, and society to build a better future.

Safety is our priority

Petrochemical complexes, packaging facilities, and logistics centers all have ISO 45001 certification for their rigorous safety measures.

- **ISO 45001**: Petrochemical plants, packaging production plants, and logistics
- **FSSC 22000**: All industrial complex

Technical Data Sheets and MSDS are available on: [www.repsol.com](http://www.repsol.com)

Repsol supplies grades with excellent properties, specially designed for applications with stringent quality specifications.
Quality

All petrochemical plants are compliant with the current ISO 9001 standards, for the quality of processes from manufacture to
distribution, transport management and end product warehousing.

ISO 9001

All petrochemical plants

Environment

We set up and deployed an ambitious CO2 program reduction, called Plan3030, that pursues a 30% reduction in our carbon
intensity indicator. Energy efficiency programs to reduce energy consumption and GHG emissions are critical elements of our
strategy.

These programs pursue long-term targets that have been made public to facilitate their progress by the stakeholders. In this
sense, Repsol Química is committed to reducing 0.26 million metric tons per year of GHG emissions in 2021-2025 Strategic
Plan and 0.7 million metric tons per year reduction until 2030 with a roadmap to be a net-zero business sooner than 2050.

All petrochemical complexes have ISO 14001 certification for their environmental management and the reduction of the
impact of their facilities, and ISO 14064 for the annual verification of greenhouse gas (GHG) emissions.

The chemical area of our complexes in Tarragona (2015), Puertollano (2013), and Sines (2016) has implemented an Energy
Management System according to the requirements indicated in the International Standard ISO 50001. This system is
dedicated to developing and implementing our organization’s energy policy and managing the energy aspects of our
activities, products, or services. The objective is to increase and improve our energy efficiency based on systems’
implementation aimed at continuous energy performance improvement, thus contributing to more efficient and sustainable
energy use.

Repsol aims to become a net-zero emissions company by 2050, and our 2021-2025 Strategic Plan enables us to continue
successfully advancing our multi-energy commitment.

ISO 50001 / ISO 14001 / ISO 14064

Puertollano, Tarragona and Sines

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Chemicals Customer Care

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