Pharmaceutical packaging and medical devices

Polypropylene, polyethylene, and EVA copolymers
Differentiated solutions for the healthcare industry

Repsol offer
- High quality products
- Ready to be part of new projects
- Capable of developing tailor-made grades
- Excellent logistics service
- Technical service and development

Our drive
- To fulfill our customers' needs:
  - Product reliability and traceability
  - Compliance
  - Long term commitment

Commitment
Dedicated storage facilities and quality management protocols to ensure the highest quality standards.

Guarantee

Service
Aligning our Quality System with the Good Manufacturing Practices required by the industry.
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 Campus, Corporate Headquarters in Madrid

LEED® Platinum certificate, awarded by the prestigious U.S. Green Building Council (USGBC), for new buildings construction
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 100 scientists and researchers working for you**

Including qualified personnel specialized on Product Stewardship.

Repsol’s commitment to R&D is evidence of the company’s aim to attain business excellence to meet future horizons.

**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.
Growing from our strengths

Over 40 years of experience producing and selling polyolefins

Three integrated production facilities in the Iberian Peninsula. We have experience launching products with the maximum cleanliness and stringent manipulation procedures.

Food packaging: we supply regularly to the food packaging industry.

Qualified in pharmaceutical applications. Repsol’s propylene glycol USP/EP is qualified and approved for use as an excipient in pharmaceutical applications.

Chemicals

Our goal

To manufacture and sell polyolefins or pharmaceutical packaging and medical devices, offering the maximum quality, service, commitment, and compliance worldwide, keeping the patients’ safety as our number one priority.
Working for a more sustainable future

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 are therefore apt for healthcare packaging and medical devices.

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 produce 10% of our polyolefins as biobased and circular products by 2030, a move that will promote the circular economy. This initiative, in conjunction with other initiatives in Repsol’s circular economy strategy, will support the company’s goal of achieving 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.

Repsol Net Zero Emissions by 2050
Voluntary commitments. Working to build a more sustainable world

Because we care. At Repsol we believe that our society needs a transition towards a new Circular Economy, and we are fully committed to developing solutions, minimizing the impact of our polymers on the environment.

We have strengthened our commitment to sustainability by submitting our voluntary pledge in response to the European Commission’s call for stakeholders to come forward with pledges to boost the uptake of recycled plastics. The European Commission target is for 10 million tons of recycled plastics to find their way into products in the EU by 2025.

To meet this ambitious EU target, Repsol has the ambition of recycling the equivalent of 20% of our polyolefin production by 2030. Thanks to Repsol’s commitment, in less than 10 years, 360 kty of plastic waste will be diverted from landfill and will become raw materials to produce new chemical products.
Repsol takes another step in differentiating its solutions and offers.

- A suitable range of polyolefins: high and low density polyethylene (HDPE, LDPE), ethylene vinyl acetate copolymers (EVA) and polypropylene (PP).
- An outstanding and differentiated level of service.
- Eager to continue developing differentiated products.
- We put your needs first, always. Our tailor-made solutions are proof of our commitment to your singular cause.
- Our industry is full of challenges awaiting inspired solutions. That's where we come in.

30 grades for healthcare
Polyolefins for pharmaceutical packaging and medical devices

Polypropylene homopolymer
Heterophasic polypropylene copolymer
Polypropylene random copolymer
Low density polyethylene
High density polyethylene
EVA copolymer
## Polypropylene homopolymer

<table>
<thead>
<tr>
<th>Grade</th>
<th>MFI</th>
<th>Charpy impact strength notched</th>
<th>Melting point °C</th>
<th>Flexural modulus MPa</th>
<th>Additives</th>
<th>Compliance</th>
<th>Biocompatibility</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPP08G</td>
<td>8</td>
<td>4</td>
<td>164</td>
<td>1500</td>
<td>-</td>
<td>3.1.3 / 3.1.6</td>
<td>USP 87 USP Cytotoxicity [Elution Test]</td>
<td>Pharmaceutical packaging, closures, pouches and medical films.</td>
</tr>
<tr>
<td>HPP09M</td>
<td>9</td>
<td>3</td>
<td>164</td>
<td>1500</td>
<td>Slip agent / Antiblock</td>
<td>3.1.3 / 3.1.6</td>
<td>USP 87 USP Cytotoxicity [Elution Test]</td>
<td>Pharmaceutical packaging, caps and closures.</td>
</tr>
<tr>
<td>HPP12G</td>
<td>12</td>
<td>4</td>
<td>164</td>
<td>1550</td>
<td>-</td>
<td>3.1.3 / 3.1.6</td>
<td>USP 87 USP Cytotoxicity [Elution Test]</td>
<td>Injection molding, caps and closures and pharmaceutical packaging.</td>
</tr>
<tr>
<td>HPP25G</td>
<td>25</td>
<td>3</td>
<td>164</td>
<td>1600</td>
<td>-</td>
<td>3.1.3 / 3.1.6</td>
<td>USP 87 USP Cytotoxicity [Elution Test]</td>
<td>Syringe parts, caps and closures, pharmaceutical packaging, injection molding items.</td>
</tr>
<tr>
<td>HPP25G1</td>
<td>25</td>
<td>4</td>
<td>157</td>
<td>1250</td>
<td>-</td>
<td>3.1.3 / 3.1.6</td>
<td>USP 87 USP Cytotoxicity [Elution Test]</td>
<td>Improved impact resistance: Syringe parts, pharmaceutical packaging, caps and closures, injection molding items.</td>
</tr>
<tr>
<td>HPP4Q0N</td>
<td>40</td>
<td>2.5</td>
<td>164</td>
<td>1700</td>
<td>Nucleating agent</td>
<td>3.1.3 / 3.1.6</td>
<td>USP 87 USP Cytotoxicity [Elution Test]</td>
<td>Thin wall injection molding, labware, dispensers.</td>
</tr>
<tr>
<td>HPP55CMD</td>
<td>55</td>
<td>2.5</td>
<td>164</td>
<td>1900</td>
<td>Clarifying agent / Antistatic</td>
<td>*</td>
<td>USP 87 USP Cytotoxicity [Elution Test]</td>
<td>Injection molding medical applications and labware. Offers stiffness and high transparency.</td>
</tr>
</tbody>
</table>

* Repsol Healthcare grades are DMF listed. For more detailed information on DMF listing, European Pharmacopoeia (Ph Eur) and United States Pharmacopoeia (USP), please contact Repsol’s Technical Service & Development Department atd_poliolefinas@repsol.com

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All our polypropylene grades are phthalate free.
### Heterophasic polypropylene copolymer

<table>
<thead>
<tr>
<th>Grade</th>
<th>MFI</th>
<th>Charpy impact strength notched</th>
<th>Melting point</th>
<th>Flexural modulus</th>
<th>Additives</th>
<th>Compliance</th>
<th>Biocompatibility</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPB15NMD</td>
<td>15</td>
<td>6</td>
<td>164</td>
<td>1600</td>
<td>Nucleating agent</td>
<td>USP B7</td>
<td>USP Cytotoxicity</td>
<td>Injection molding medical applications.</td>
</tr>
</tbody>
</table>

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### Polypropylene homopolymer & Heterophasic polypropylene copolymer

![Graph showing properties of Polypropylene homopolymer & Heterophasic polypropylene copolymer](image)

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## Polypropylene random copolymer

<table>
<thead>
<tr>
<th>Grade</th>
<th>MFI</th>
<th>Charpy impact strength notched</th>
<th>Melting point (°C)</th>
<th>Flexural modulus (MPa)</th>
<th>Additives</th>
<th>Compliance</th>
<th>Biocompatibility</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPR02CMD</td>
<td>1.6</td>
<td>&gt;9</td>
<td>143</td>
<td>800</td>
<td>Clarifying agent</td>
<td>*</td>
<td>*</td>
<td>USP 87 USP Cytotoxicity ([Elution Test] USP 88 class VI ISO 10993-4, -5, -6, -10, -11 Medical packaging, film and pouches, vials.</td>
</tr>
<tr>
<td>HPR02W</td>
<td>1.8</td>
<td>&gt;9</td>
<td>143</td>
<td>800</td>
<td>-</td>
<td>3.1.3 / 3.16</td>
<td>661.1</td>
<td>Large volume parenteral BFS bottles apt for autoclave sterilization at 121°C. Medical packaging, film and pouches, injection molding items.</td>
</tr>
<tr>
<td>HPR09G</td>
<td>9</td>
<td>8</td>
<td>145</td>
<td>950</td>
<td>-</td>
<td>3.1.3 / 3.16</td>
<td>661.1</td>
<td>Barefoot grade. Medical packaging, films and pouches.</td>
</tr>
<tr>
<td>HPR09MR</td>
<td>9</td>
<td>7</td>
<td>150</td>
<td>1100</td>
<td>Slip agent/ Antiblock</td>
<td>3.1.3 / 3.16</td>
<td>661.1</td>
<td>Contains slip and antiblock. Medical packaging, labware, caps and closures and ISBM.</td>
</tr>
<tr>
<td>HPR35CMD</td>
<td>38</td>
<td>6</td>
<td>149</td>
<td>1050</td>
<td>Clarifying agent/ Antistatic</td>
<td>*</td>
<td>661.1</td>
<td>Caps and closures, syringe parts, medical device components.</td>
</tr>
<tr>
<td>HPR35RMD</td>
<td>38</td>
<td>6</td>
<td>149</td>
<td>1050</td>
<td>Clarifying agent/ Radiation resistance</td>
<td>*</td>
<td>661.1</td>
<td>Caps and closures, syringe parts, tubes, labware. Gamma and E-beam rad.</td>
</tr>
<tr>
<td>HPR75CMD</td>
<td>75</td>
<td>6</td>
<td>149</td>
<td>1050</td>
<td>Clarifying agent/ Properties Antistatic</td>
<td>*</td>
<td>661.1</td>
<td>Small syringes, thin wall parts.</td>
</tr>
</tbody>
</table>

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Heterophasic polypropylene copolymer

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Low density polyethylene

<table>
<thead>
<tr>
<th>Grade</th>
<th>ISO 1133 g/10 min 190 ºC / 2.16 kg</th>
<th>ISO 1183 kg/m³</th>
<th>º C</th>
<th>Additives</th>
<th>Compliance</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLD01S1</td>
<td>0.55</td>
<td>929</td>
<td>117</td>
<td>No additives</td>
<td>3.1.3 / 3.1.4</td>
<td>661.1</td>
</tr>
<tr>
<td>HLD02S</td>
<td>2</td>
<td>920</td>
<td>110</td>
<td>No additives</td>
<td>3.1.3 / 3.1.4</td>
<td>661.1</td>
</tr>
<tr>
<td>HLD02G</td>
<td>2</td>
<td>920</td>
<td>110</td>
<td>Antioxidants/Antiblock/Slip agent</td>
<td>3.1.3 / 3.1.5</td>
<td>661.1</td>
</tr>
<tr>
<td>HLD08S</td>
<td>8</td>
<td>920</td>
<td>109</td>
<td>No additives</td>
<td>3.1.3 / 3.1.4</td>
<td>661.1</td>
</tr>
<tr>
<td>HLD20S</td>
<td>22</td>
<td>923</td>
<td>104</td>
<td>No additives</td>
<td>3.1.3 / 3.1.4</td>
<td>661.1</td>
</tr>
</tbody>
</table>

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High density polyethylene

<table>
<thead>
<tr>
<th>Grade</th>
<th>MFI (g/min 190 °C)</th>
<th>MFI (g/min 190 °C)</th>
<th>Density (kg/m³)</th>
<th>Melting point</th>
<th>Additives</th>
<th>Compliance</th>
<th>Biocompatibility</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHD40G</td>
<td>0.55</td>
<td>-</td>
<td>948</td>
<td>135</td>
<td>Antioxidants, slip</td>
<td>USP 87 USP Cytotoxicity (Elution Test)</td>
<td>USP 661.11</td>
<td>Typical extrusion blow molding grade for pill jars, offering increased density and barrier properties. Typically also converted in IBM process.</td>
</tr>
<tr>
<td>HHD55G</td>
<td>0.25</td>
<td>-</td>
<td>955</td>
<td>135</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test)</td>
<td>USP 661.11</td>
<td>Blow molding HDPE grade presenting stiffness and excellent stress cracking resistance. Grade used for pill jars and containers for pharmaceutical packaging.</td>
</tr>
<tr>
<td>HHD58G</td>
<td>0.25</td>
<td>-</td>
<td>958</td>
<td>135</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test)</td>
<td>USP 661.11</td>
<td>Packaging, diagnostic and tubes, blow molding bottles.</td>
</tr>
<tr>
<td>HHD55G1</td>
<td>-</td>
<td>0.25</td>
<td>955</td>
<td>136</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test)</td>
<td>USP 661.11</td>
<td>Extrusion blow molding HDPE grade for pharmaceutical packaging including BPS processes. Good process stability.</td>
</tr>
</tbody>
</table>

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**EVA copolymer**

<table>
<thead>
<tr>
<th>Grade</th>
<th>MFI</th>
<th>VA content</th>
<th>Additives</th>
<th>Compliance</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVA08G</td>
<td>2</td>
<td>7.5</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test) USP 88 class VI ISO 10993-4, -5, -6, -10, -11</td>
<td>It is used for transdermal patches but can also be used for small blow molding, injection molding or tubing.</td>
</tr>
<tr>
<td>HVA18G1</td>
<td>0.7</td>
<td>18</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test) USP 88 class VI ISO 10993-4, -5, -6, -10, -11</td>
<td>Extrusion of medical film and production of medical bags, seals and closures.</td>
</tr>
<tr>
<td>HVA18G</td>
<td>2</td>
<td>18</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test) USP 88 class VI ISO 10993-4, -5, -6, -10, -11</td>
<td>Medical film and bags, tubing, seals and closures.</td>
</tr>
<tr>
<td>HVA28G1</td>
<td>3.5</td>
<td>27.5</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test) USP 88 class VI ISO 10993-4, -5, -6, -10, -11</td>
<td>Medical film.</td>
</tr>
<tr>
<td>HVA28G2</td>
<td>7</td>
<td>28</td>
<td>Antioxidants</td>
<td>USP 87 USP Cytotoxicity (Elution Test) USP 88 class VI ISO 10993-4, -5, -6, -10, -11</td>
<td>Injection molding medical devices.</td>
</tr>
</tbody>
</table>

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**Qualified in more pharmaceutical applications**

Repsol's propylene glycol USP/EP is qualified and approved for use as an excipient in pharmaceutical applications.
Sterilization

<table>
<thead>
<tr>
<th>Repsol Healthcare</th>
<th>Autoclave</th>
<th>ETO</th>
<th>Gamma and E-beam radiation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene Homopolymer HPP</td>
<td>☑️</td>
<td>☑️</td>
<td>Only for HPP55RMD</td>
</tr>
<tr>
<td>Polypropylene Random Copolymer HPR</td>
<td>☑️</td>
<td>☑️</td>
<td>Only for HPR35RMD</td>
</tr>
<tr>
<td>Low Density Polyethylene HLD</td>
<td>☑️</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>High Density Polyethylene HHD</td>
<td>☑️</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>EVA Copolymer HVA</td>
<td>☑️</td>
<td>☑️</td>
<td></td>
</tr>
</tbody>
</table>

* For specific information on sterilization resistance, please contact the Technical Service and Development Department.

MEDICAL POLICY DISCLAIMERS

- The use of this product in any Medical Device must comply with the following criteria:
  - Class I Medical Devices (European Union and/or U.S. FDA): the product may only be used for this purpose with prior notification to REPSOL QUIMICA, S.A. of each specific final application.
  - Class II Medical Devices (European Union and/or U.S. FDA): the product may only be used for this purpose with REPSOL QUIMICA, S.A.'s prior written approval.
  - This product may not be used for implantable devices and for Class III Medical Devices (European Union and/or U.S. FDA).

- REPSOL QUIMICA, S.A. makes no warranties, express or implied, which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

- Before using a product sold by REPSOL QUIMICA, S.A. users should make their own independent determination that the product is safe, lawful and technically suitable for the intended use.

- REPSOL QUIMICA, S.A. accepts no liability from the use of its materials in conjunction with other materials.
Safety and quality are our priority

All our petrochemical complexes and production plants meet the most stringent quality and safety standards.

Our petrochemical complexes, packaging production plants and logistics centers have rigorous food-safety management systems in place and hold ISO 45001. Their manufacturing, distribution, transport, and end-product storage processes are also certified to the ISO 9001 quality standard. The Chemicals units at our complexes operate under an Energy Management System. Our Certified Environmental Management System guarantees that Best Available Practices and Technologies are in place to minimize the impact of our sites.

IATF 16949 certified
In 2021 we have obtained the highest certification for our auto products, having adapted all our automotive materials production centers under the IATF 16949 standard, an international standard for quality management systems in the automotive industry. This standard is the most demanding for quality management systems in the automotive sector at an international level and one of the essential requirements that car manufacturers require from their suppliers.

Certifications

<table>
<thead>
<tr>
<th>All Repsol complexes and plants</th>
<th>All Repsol complexes</th>
<th>Puertollano, Tarragona and Sines</th>
<th>Puertollano, Tarragona and Monzón plants</th>
<th>Puertollano and Monzón plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 45001</td>
<td>ISO 9001</td>
<td>ISO 50001</td>
<td>IATF 16949</td>
<td>UNE–EN 15343</td>
</tr>
<tr>
<td>FSSC 22000</td>
<td>ISCC Plus</td>
<td>ISO 14001</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ISO 14064</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Environment

Repsol’s purpose is to become a net-zero emissions company by 2050, and our 2024-2027 Strategic Plan enables us to continue successfully advancing our multi-energy commitment.

We have set up and deployed an ambitious CO₂ program reduction that pursues a 40% reduction in SCOPE 1 & 2 emissions by 2030 (2017 as reference year) and zero emissions before 2050. Energy efficiency programs to reduce energy consumption and GHG emissions are one of the key elements of our strategy in the short term, followed by deep process electrification and CCUS. Biofeedstocks and renewable electricity will have a relevant role in this transition.

These programs pursue long-term targets made public to facilitate their progress by the stakeholders. In this sense, Repsol Química is committed to a reduction of 0.26 million tons per year of GHG emissions in the 2021-2025 Strategic Plan and a 1.3 million tons per year reduction until 2030 with a roadmap to be a net-zero company before 2050.

Regarding SCOPE 3 emissions, Repsol Química will contribute to the CO₂ emissions reduction at the plastics’ end of life with our circularity projects, while we offer sustainable solutions for our clients: 100% recyclable polyolefins.

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. In addition, 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 Química has released on a yearly frequency the carbon footprint of all its product families since 2020, considering the “cradle to gate” scope based on ISO 14067.
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