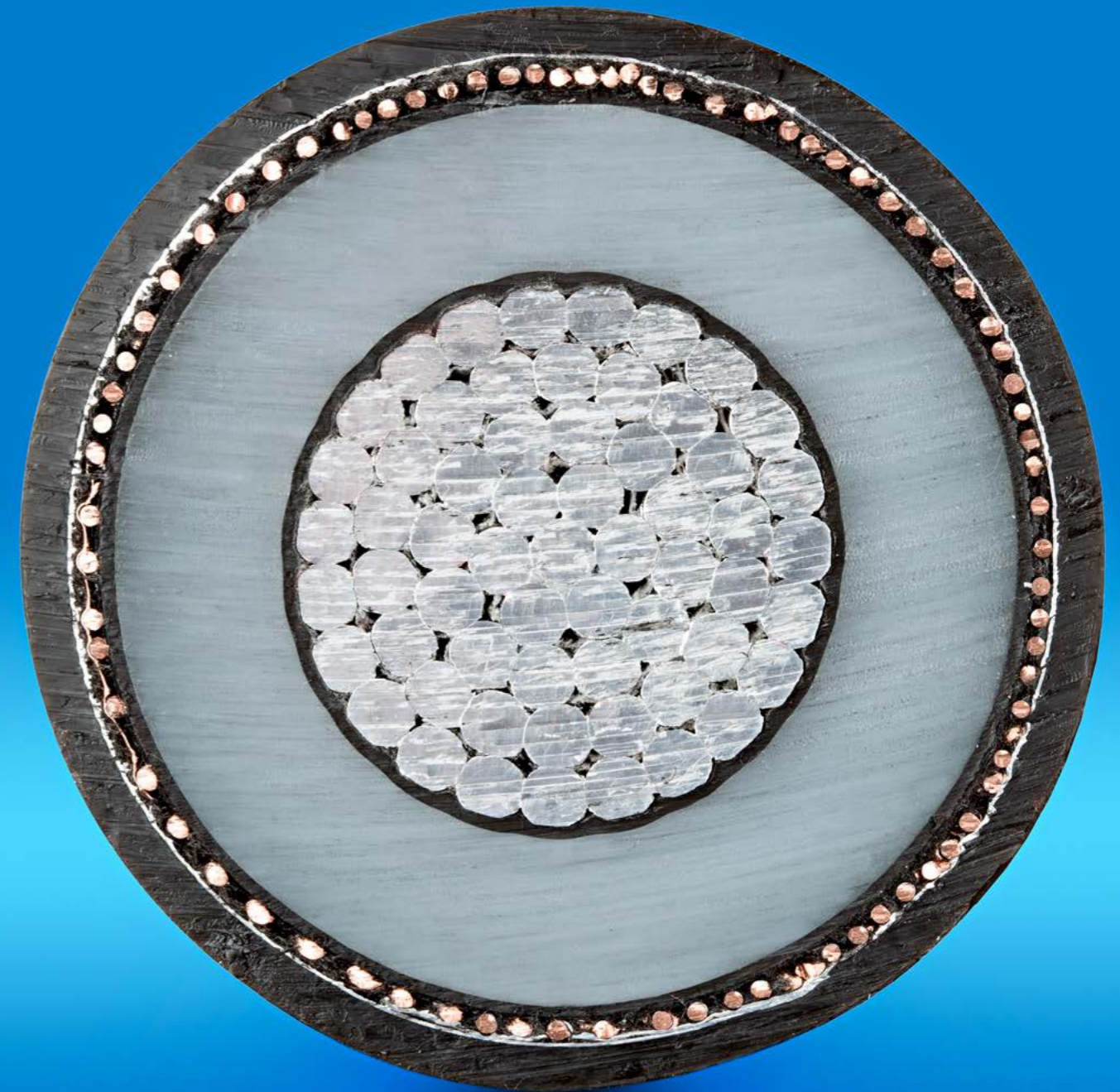




Materials

Cables. Polyethylene, Polypropylene, EVA & EBA

repsol



Specialty solutions: Scaling up for market demands

repsol

The specialties segment is a cornerstone of our corporate strategy, anchored in the Alba Project—an ambitious expansion of our Sines Industrial Complex and the development of circular and differentiated products.

Our polymers are produced in Europe across three strategic sites and meet the highest standards of quality and safety, including FSCC 22000 certification for food contact.

We deliver high-performance polymers tailored for demanding sectors, such as healthcare, automotive, cables, pipes and 3D printing. UHMWPE stands out for its exceptional durability and performance in critical applications, while our polypropylene for additive manufacturing expands design possibilities.

Our commitment to circularity is reflected in our portfolio of mechanical and chemical recycling solutions, and bio-based alternatives certified by ISCC Plus. By 2030, 10% of our polyolefins will be bio-based or recycled.

Through the Alba Project, we are doubling our production capacity and reinforcing our ability to innovate and respond swiftly to evolving market demands.



Innovation for a sustainable future

repsol

The cable industry is embracing sustainability—and at Repsol, we're leading the way with our Repsol Reciclex® range of eco-friendly polyolefins.

Our mechanical recycling solutions include LDPE and LLDPE grades with up to 70% post-consumer recycled content (PCR), certified by Recyclass. These materials help reduce carbon footprint without compromising performance.

We also offer two ISCC Plus-certified options:

- ✔ Circular polyolefins from chemical recycling.
- ✔ Bio-circular polyolefins from organic waste.

With Repsol Reciclex®, you get a complete, certified portfolio of sustainable polyolefins designed to meet the cable industry's goals for emissions reduction and environmental responsibility.

Join us in driving the green revolution for cables!

repsol
Reciclex



Repsol.

A global multi-energy company

With over 8 decades of experience

We are leading the energy transition by being the first company in the energy sector to set the goal of reaching net-zero emissions by 2050.

Present throughout the energy value chain, the company employs 25,000 people worldwide and distributes its products in over 90 countries.

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





Materials

repsol

We market our products over 90 countries

With over 60 years of experience producing materials, we provide the expertise to manage every crucial aspect of the value chain: research, development, manufacturing, marketing, and distribution.

Operating three integrated production sites in the Iberian Peninsula, we have experience launching high-purity products with strict handling protocols and consistently supplying materials to the food packaging sector.

Our Technology Lab serves as the core of our innovation and development efforts. It is where our products are created and refined with great care as we strive to deliver innovative solutions tailored to our customers' requirements.

Producing from base petrochemicals to derivatives

Repsol manufactures a wide variety of products, ranging from base petrochemicals to derivatives

Base chemicals: ethylene, propylene, butadiene, benzene, and styrene.

PO Derivates: propylene oxide, polyether polyols, and propylene glycols.

Polymers: 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.

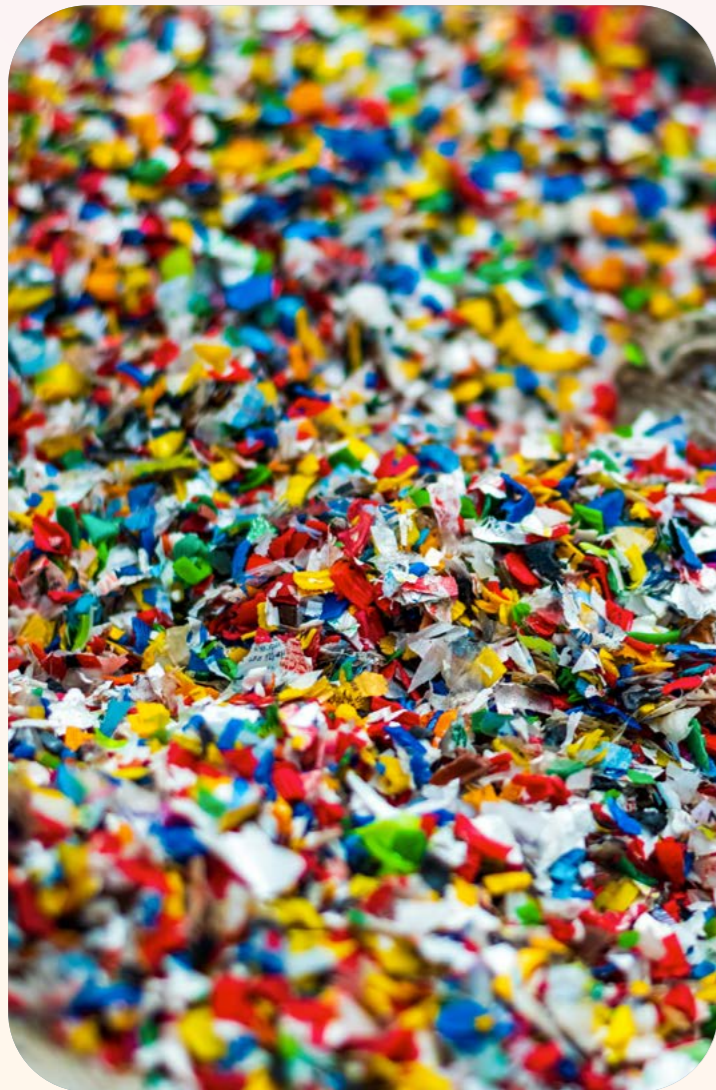
Our goal

We aim to create advanced products and provide high-quality solutions that support the growth of your business.

Working for a more sustainable future

repsol

We run targeted projects that minimize the environmental impact of our materials. To this end, we are committed to improving the efficiency of our industrial processes and reducing the carbon footprint of our polymers.



We have a specialized circular economy department dedicated to recycling post-consumer materials, driving the development of new materials that offer 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 certified under RecyClass.

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.

Furthermore, we offer a full Repsol ISCC Plus Certified polyolefin circular range, derived from bio and organic waste.

Moreover, our wide range of polyolefins is 100% recyclable.

Our ambition is to produce 10% of our polyolefins as circular and bio-circular products by 2030, supporting, in conjunction with 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 our emissions neutrality goal, we have set the objective of reducing our carbon intensity by 30% by 2030.

Advancing the circular economy and lowering carbon intensity of our operations will contribute towards transforming Repsol's industrial business, 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 Reciclex[®] range

Advancing the sustainability circle

Repsol Reciclex[®] products support our clients in their sustainability goals comprehensively.

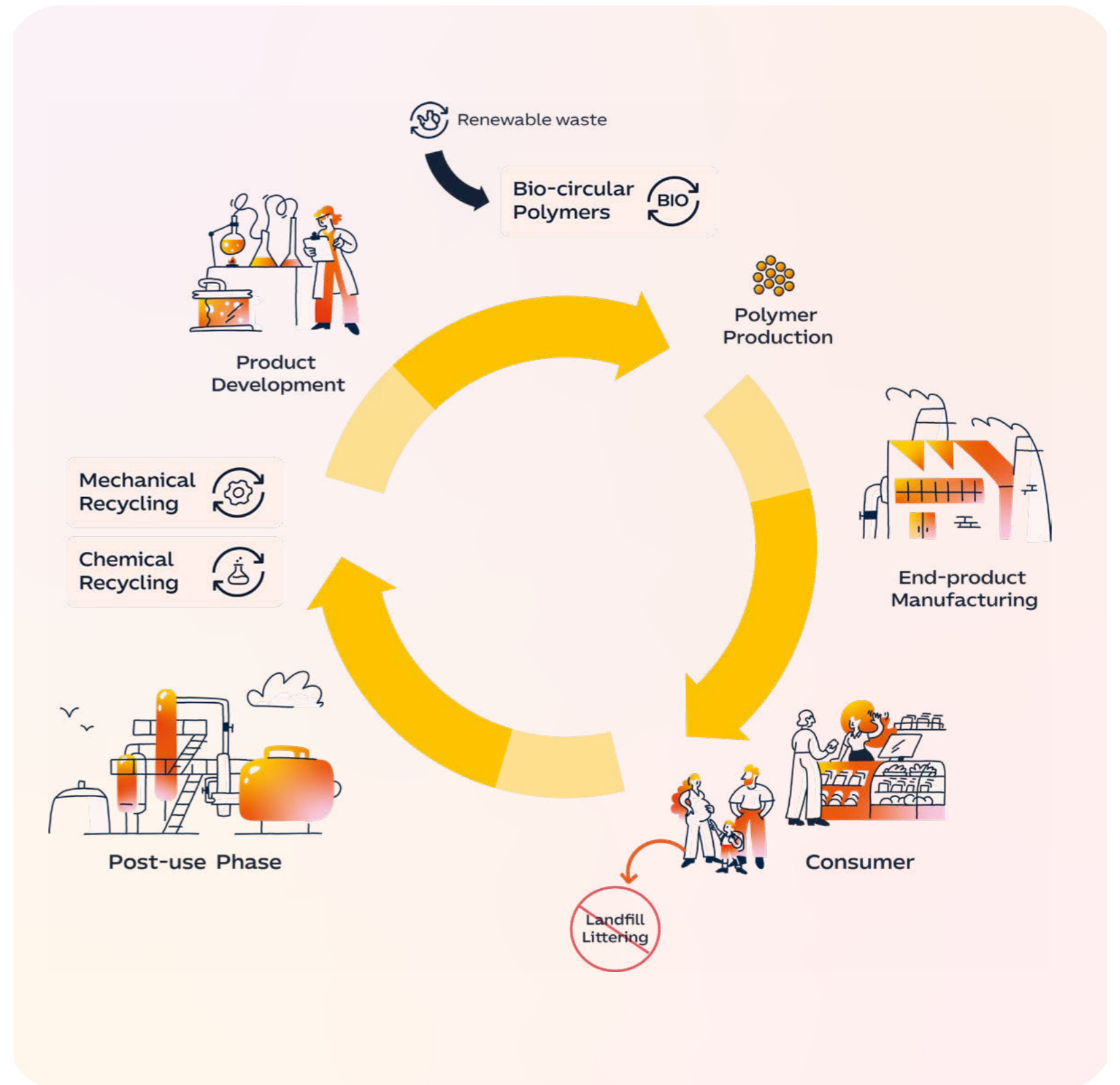
With three ranges to support each project in a personalized way:

- ✓ Mechanical Recycling
- ✓ Chemical Recycling
- ✓ Bio-circular Polymers

With a vocation to continue advancing and supporting the goal of zero net emissions.

[Access our catalog](#)

repsol
Reciclex 



Innovation & market leadership



Over 30 years
of technical
expertise and
development

Repsol
Technology Lab:
Our innovation
hub for advanced
cable solutions

Market trend:
Energy
consumption
expected to rise
by 33% by 2030

Comprehensive cable solutions

Over 40 grades for power and communication cables. Includes insulation, jacketing, and base resins for compound manufacturing. Designed to meet the growing demands of modern electrical infrastructures.



Power and communication cables

Power cable portfolio

Semiconductive shields

- ✔ Wide range of EVA and EBA base resins.

Insulation

- ✔ Low Voltage: LDPE grades stabilized and additive-free for peroxide and silane crosslinking.
- ✔ Medium Voltage: Clean LDPE grades for direct peroxide injection.

Jacketing

- ✔ LDPE, MDPE, and HDPE grades with additives for excellent stress-crack resistance.
- ✔ EVA, EBA, and PP base resins for halogen-free flame-retardant (HFFR) compounds.

Communication cables

Insulation

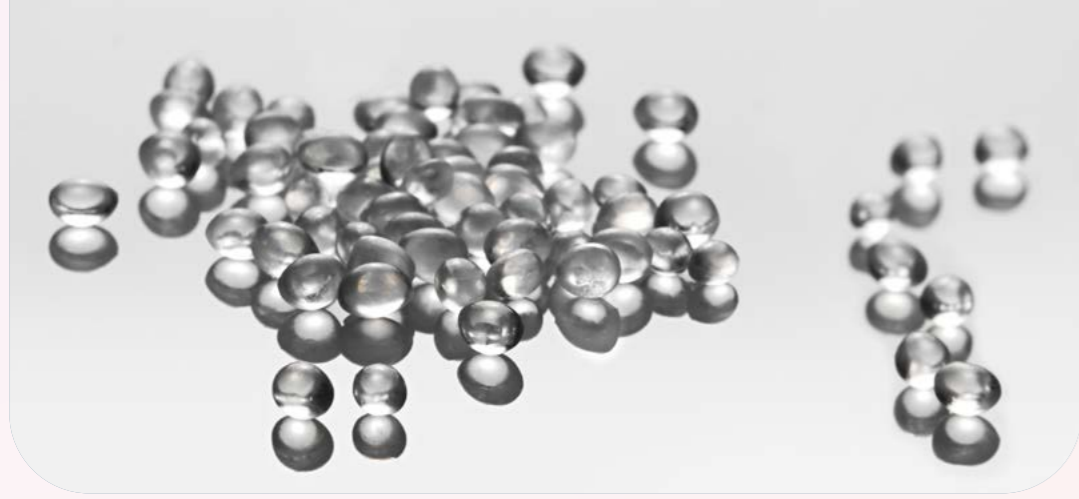
- ✔ LDPE and HDPE grades stabilized for good processability.

Jacketing

- ✔ LDPE, MDPE, and HDPE grades with additives for stress-crack resistance.
- ✔ EVA, EBA, and PP base resins for HFFR compounds.

Specialized portfolio

- ✔ Insulation grades for low, medium voltage, and telecom.
- ✔ Jacketing grades for power and telecom.
- ✔ Base resins for cable compounds.



Cables



Agriculture



Healthcare



Household



Building
& infrastructure



Well-being
& consumer products



Insulation grades for low voltage

Safety is a priority: we are certified with ISO 45001 in recognition of our strict safety management



LDPE

Grade	MFI ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Density ISO 1183 (Kg/m³)	Elongation at break ISO 527-2 %	Tensile strength at break ISO 527-2 (MPa)	Dielectric constant ASTM D 1531 1MHz	Dissipation factor ASTM D 1531 1MHz	Polymer type / Crosslinking / Description
PE003	2.4	920	500	14	2.3	0.0003	LDPE / Peroxide XLPE / Insulation. Additive free.

LV: low voltage

[Insulation grades for medium voltage](#)

Insulation grades for medium voltage



Repsol supplies insulation grades for low and medium voltage power cables. These have been developed specifically for crosslinking process

LDPE

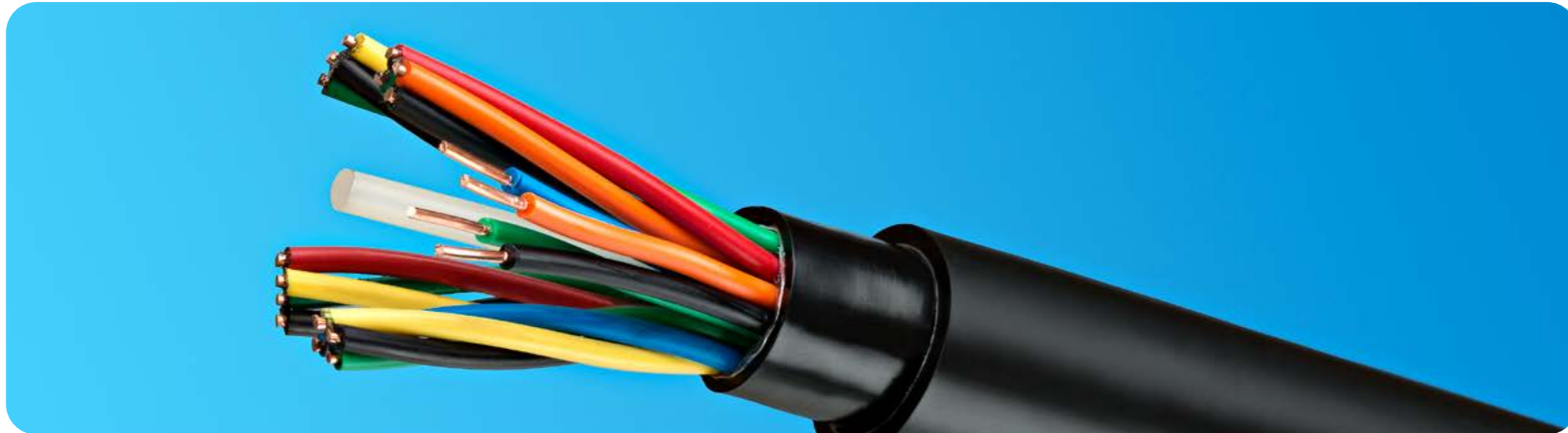
Grade	MFI ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Density ISO 1183 (Kg/m³)	Elongation at break ISO 527-2 %	Tensile strength at break ISO 527-2 (MPa)	Dielectric constant ASTM D 1531 1MHz	Dissipation factor ASTM D 1531 1MHz	Polymer type / Crosslinking / Description
PE004	2.4	920	500	14	2.3	0.0003	LDPE / Direct peroxide injection XLPE / Clean XLPE insulation. Additive free.
CP104	2.4	920	500	14	2.3	0.0003	LDPE / Direct peroxide injection XLPE / Clean and stabilized XLPE insulation.
CP004TR	2.4	920	500	14	2.3	0.0003	LDPE / Direct peroxide injection XLPE / Water tree retardant XLPE insulation.
PE004S	2.4	920	500	14	2.3	0.0003	LDPE / Direct peroxide injection XLPE / Extra clean XLPE insulation. Additive free.

XLPE: crosslinkable polyethylene

[Insulation grades for low voltage](#)

[Insulation grades for telecommunication](#)

Insulation grades for telecommunication



LDPE and HDPE grades for the communication industry are specially additivated to assure an excellent quality of the cable

LDPE, HDPE, PP

Grade	MFI ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Density ISO 1183 (Kg/m³)	Elongation at break ISO 527-2 %	Tensile strength at break ISO 527-2 (MPa)	Dielectric constant ASTM D 1531 1MHz	Dissipation factor ASTM D 1531 1MHz	Polymer type / Crosslinking / Description
CP121	0.35	921	600	16	2.3	0.0003	LDPE solid insulation. General purpose insulation. It contains a metal deactivator.
CAB4910	0.9	949	700	20	2.3	0.0004	HDPE stabilized with a metal deactivator. Solid insulation cables.
PP020G3E	1.0 (230 °C)	905	440	25			PP-H. Insulation compounds based on PP.
PR264G1F	8.5 (230 °C)	905	530	28			PP-R. Insulation compounds based on PP.

Insulation grades for medium voltage

Jacketing grades for power and telecommunication

Jacketing grades for power and telecommunication



DPE, HDPE, MDPE, mLLDP

Grade	MFI ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Density ISO 1183 (Kg/m ³)	Elongation at break ISO 527-2 %	Tensile strength at break ISO 527-2 (MPa)	Dielectric constant ASTM D 1531 1MHz	Dissipation factor ASTM D 1531 1MHz	Polymer type / Crosslinking / Description
2202CN	0.25	934	600	14	2.6	0.005	Black LDPE / Telecommunication jacketing / Excellent processability.
3802N	0.20	950	600	35	2.5	0.0002	Black MDPE / Jacketing for energy cables / High stiffness.
C220N	0.6	955	800	27	2.7	0.006	Black HDPE / Jacketing for fiber and telecommunication cables / Low shrinkage.
5605N	0.45	958	600	> 30	2.3	0.005	Black HDPE / Jacketing for energy and telecommunication cables.
C240UV	21 (21.6 kg)	939	800	28	2.5	0.00013	MDPE / Jacketing for energy and telecommunication cables / Colorable and UV protection.
3802	0.2	938	900	28	2.5	0.0002	MDPE / Jacketing for energy cables / High stiffness.
CAB4805UV	0.45	948	650	> 30			HDPE / Jacketing for energy cables / Low shrinkage.

Insulation grades
for telecommunication

Base resins for
cable compounds

Base resins for cable compounds

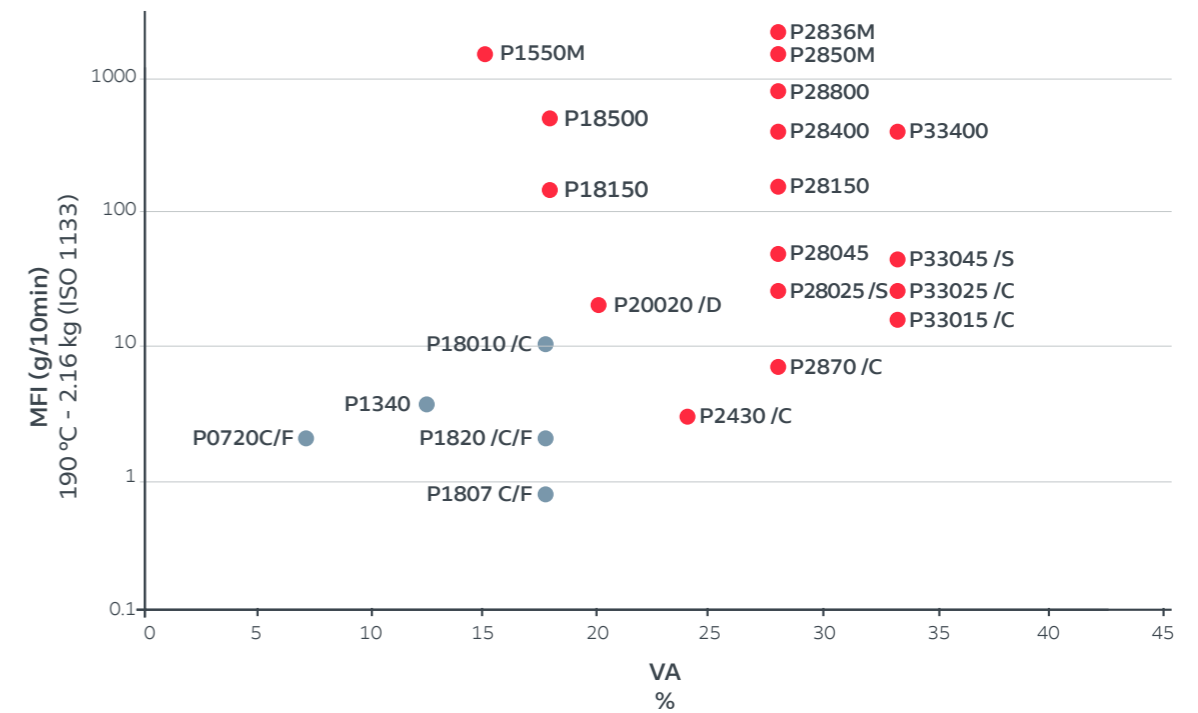


Repsol Primeva®

Grade	MFI	VA content	Density	Elongation at break	Tensile strength at break	Polymer type Crosslinking Description
	ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Internal method % ³	ISO 1183 (Kg/m ³)	ISO 527-2 %	ISO 527-2 (MPa)	
P1807C	0.7	18	941	850	32	EVA / HFFR compounds.
P1820C	2.0	18	937	750	17	EVA / HFFR compounds.
P2430C	3.0	24	944	740	25	EVA / HFFR compounds.
P2870C	7.0	28	950	760	22	EVA / HFFR compounds.
P33015C	15	33	956	800	14	EVA / HFFR compounds / Semiconductive compounds.
P33025C	25	33	956	825	6.0	EVA / HFFR compounds / Semiconductive compounds.
P33045	45	33	956	850	5.0	EVA / HFFR compounds / Semiconductive compounds.

These base resins are suitable for the fabrication of halogen-free flame-retardant (HFFR), semiconductive or other cable compounds.

Wire and cable Primeva grades



Also available these other qualities:
/C - Cable /F - Film /S - Solar /D - Coating

● Low content ● High content



Jacketing grades for power and telecommunication

Base resins for cable compounds

Base resins for cable compounds

Repsol Ebantix®

Grade	MFI	BA content	Density	Elongation at break	Tensile strength at break	Polymer type Crosslinking Description
	ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Internal method % ³	ISO 1183 (Kg/m ³)	ISO 527-2 %	ISO 527-2 (MPa)	
E803C	0.3	8	924	540	22	EBA / HFFR compounds.
E1240	4.0	12	925	700	14	EBA / HFFR compounds.
E1303	0.3	13	925	585	20	EBA / HFFR compounds.
E1704	0.4	17	925	640	19	EBA / HFFR compounds.
E1715	1.5	17	926	833	17	EBA / HFFR compounds / Semiconductive compounds.
E1770	7.0	17	924	800	12	EBA / Semiconductive compounds.
E17010	10	17	925	830	12	EBA / Semiconductive compounds.
E2735C	3.5	27	927	770	8	EBA / HFFR compounds.
E2770	7.0	27	926	600	7.5	EBA / HFFR compounds.
E33040	40	33	925	700	3.4	EBA / HFFR compounds.

These base resins are suitable for the fabrication of halogen-free flame-retardant (HFFR), semiconductive or other cable compounds.

Wire and cable Ebantix grades



Base resins for
cable compounds

Base resins for
cable compounds

Base resins for cable compounds

Repsol offers a comprehensive range of products which has been designed according to the standards of the communication cable, optic fiber, and power cables industry requirements



PP block copolymer

Grade	MFI ISO 1133 (g/10 min) 190 °C / 2.16 Kg	VA content Internal method % ³	Density ISO 1183 (Kg/m ³)	Elongation at break ISO 527-2 %	Tensile strength at break ISO 527-2 (MPa)	Polymer type / Crosslinking / Description
PB130 G1M	1.3		905	500	28	PP block copolymer / HFFR compounds.
B140 G2M	3.5		905			PP block copolymer / HFFR compounds.

These base resins are suitable for the fabrication of halogen-free flame-retardant (HFFR), semiconductive or other cable compounds.

Base resins for
cable compounds

Wire
& Cable

Wire & Cable



LDPE

Grade	Recycled material PCR %	Similar reference	Color	LLDPE content %	MFI ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Density ISO 1183 (Kg/m³)	Application
60RX3235G	60	3235FGA	Natural	35-45	2	923	LDPE for jacketing and bedding compounds.



LLDPE/mLLDPE

Grade	Recycled material PCR %	Similar reference	Color	LLDPE content %	MFI ISO 1133 (g/10 min) 190 °C / 2.16 Kg	Density ISO 1183 (Kg/m³)	Application
70RX2110G	70	MF1810FG	Natural	70-85	1	923	LLDPE for jacketing and bedding compounds.
70RX2110F	70	MF1810F	Natural	70-85	1	923	LLDPE for jacketing and bedding compounds.
80RX1830F	80	MF1835F	Natural	85-95	3	918	LLDPE for jacketing and bedding compounds.



Base resins for cable compounds



Explore the full range of our specialties solutions



Pharmaceutical packaging & medical devices



repsol

Healthcare



Solutions for the automotive market



High performance polypropylene compounds



Pipes



UHMWPE
Superior performance



Sustainable solutions in polymers



repsol

Reciclex



Safety & quality are our priority

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

Our chemical complexes and logistics centers are all ISO 45001 certified. We are food safety leaders. All our facilities are FSSC 22000 certified, recognizing our food safety risk management processes throughout the supply chain.

Technical Data Sheets and MSDS are available on: www.repsol.com

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.

In February 2019, we obtained the ISCC PLUS certification in all our polyolefin production centers. We are one of the leading companies in the production of circular polyolefins, utilizing recycled plastic waste as a raw material. This certification exemplifies our commitment to promoting the Circular Economy of our materials.

Certifications

**Petrochemical plants,
plants, & logistics**
ISO 45001

All industrial complexes
FSSC 22000
All chemical plants
ISO 9001 + ISCC Plus

**Puertollano,
Tarragona, & Monzón
plants**
IATF 16949

**Puertollano & Monzón
plants**
RecyClass

**Puertollano,
Tarragona, & Sines**
ISO 45001



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, the Industrial Area is committed to reducing 1.6 million tons of CO₂ under the 2024-2027 Strategic Plan, which, combined with the reductions achieved through the 2024-2026 Strategic Plan, amounts to more than 2 million tons of CO₂.

Regarding SCOPE 3 emissions, Repsol Materials, S.A. 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 Materials, S.A. 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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