



Injection

Rigid packaging



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





Chemicals

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.

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 certified under UNE-EN 15343.

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.

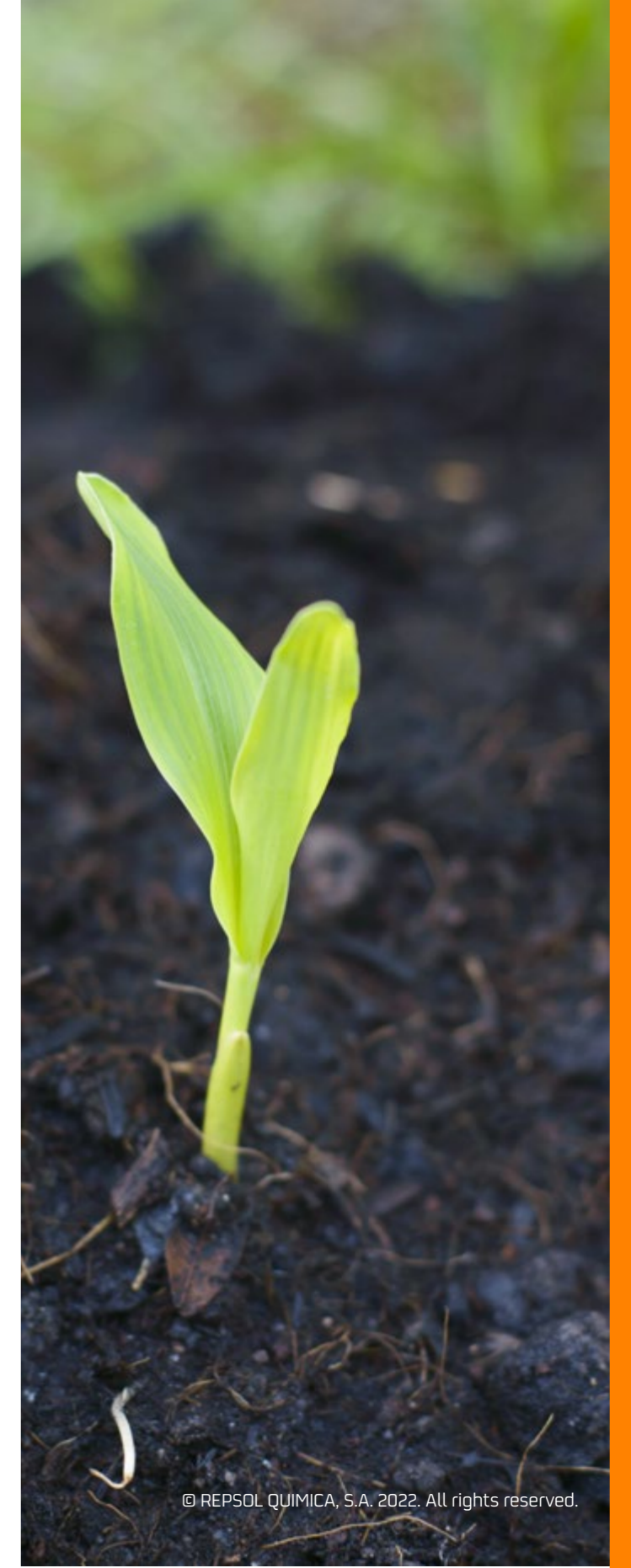


**Committed
to Net Zero
Emissions**

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 by 2030 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.**

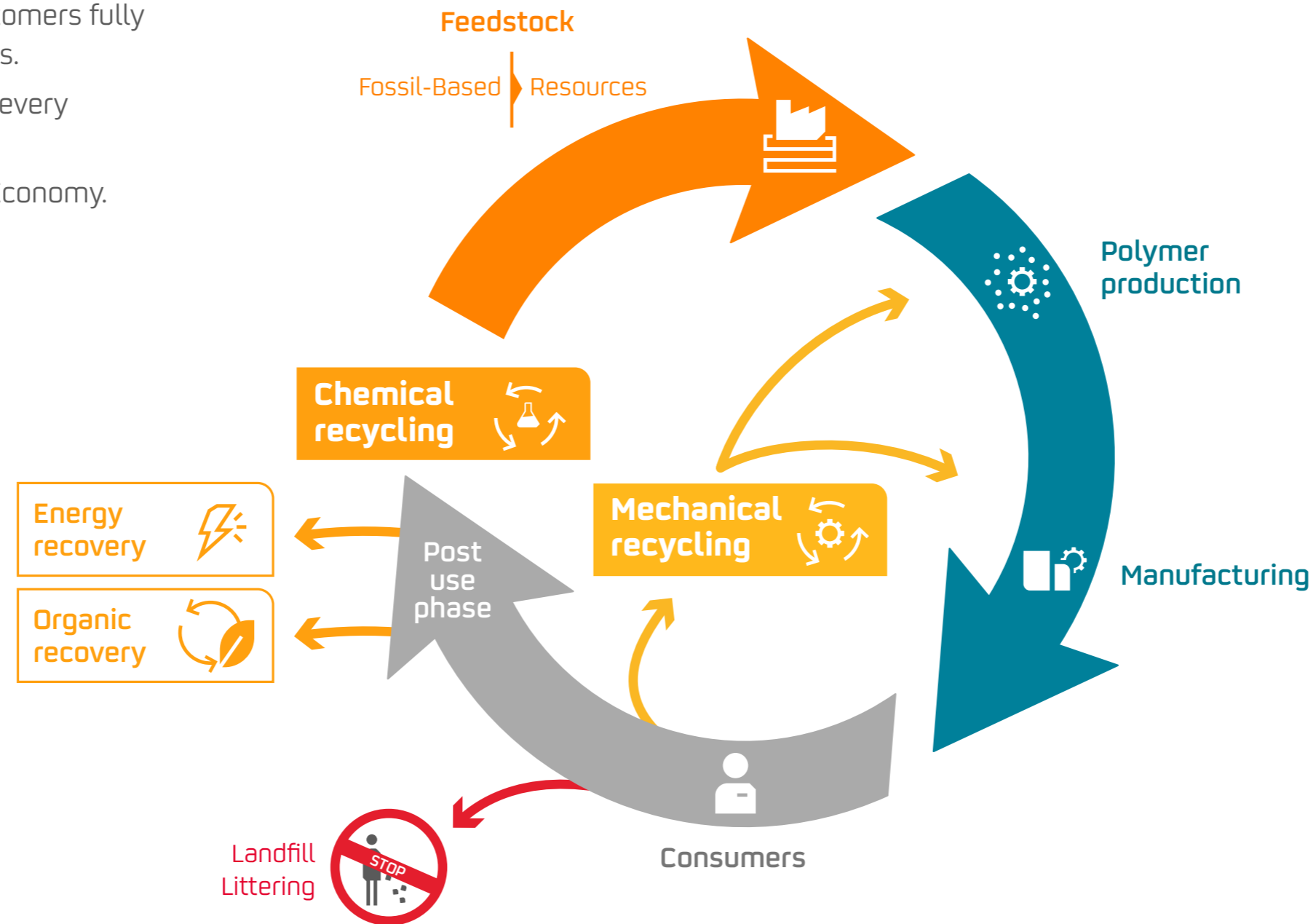
Advancing the circular economy and lowering carbon intensity in our chemicals business will contribute towards transforming Repsol's industrial operations, as well as **developing high-value-added raw materials, making it possible to manufacture an infinite number of products that improve human well-being,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



Repsol Reciclex[®] range

Advancing the sustainability circle

- Repsol Reciclex[®] helps our customers fully meet their sustainability targets.
- Two ranges tailored to support every customer project.
- Vocation to boost the Circular Economy.



Repsol Reciclex[®] range

Advancing towards zero emissions

CHEMICAL RECYCLING

- 100% recycled plastic raw material.
- Completes the material life cycle.
- Full Repsol range across all applications.
- Same properties as standard range.
- Suitable for food, hygiene, and medical use.
- Low carbon footprint.
- ISCC Plus certificate.
- 100% recyclable.

MECHANICAL RECYCLING

- Over 20 grades with high proportions of recycled content.
- Applications in film, rigid packaging, auto, blow molding, compounding and others.
- Non-food applications.
- Low carbon footprint.
- UNE-15343 traceability certificate.
- Consistent quality and homogeneity.
- 100% recyclable.



Injection

Over 40 years of market experience

We have been developing our integrated chemical business for over 40 years and this experience allows us to control all **the key factors in the value chain**: research, development, manufacture, marketing and distribution.

With three integrated production facilities in the Iberian Peninsula, we have experience in high-cleanliness product launches with strict handling procedures in place and we provide a regular supply of materials to the food packaging industry.

Over 30 years of experience in technical services and development

Our Technology Lab Centre is the hub of our innovation and development. This is where our products come to life and are meticulously perfected in our quest for **innovative solutions to meet our customers' needs**. Our mission is to develop cutting-edge products and offer **high-quality solutions** to improve your business.



Injection

**We revolve around our customers,
and we innovate with only them in mind**

Our clients are always our top priority, driving us to deliver highly differentiated products that meet their needs and improve their productivity while conserving the world we live in.

Over 60 injection grades

Thanks to our versatility, we can produce one of the widest ranges of polyolefins on the market for industrial sector of rigid packaging.



We are the first polyolefin producer to have all our complexes certified according to the FSSC 22000 food safety standard.



Thermoforming

Polypropylene



Grade		MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m ²] 23 °C	Additives	Key properties
PP030G1E	Homopolymer	1.7	1,600	8	-	Optimum balance between mechanical and processing properties.
PP031G1E	Homopolymer	2.2	1,600	8	-	Optimum balance between mechanical and processing properties.
PP040G1E	Homopolymer	3	1,600	5	-	Optimum balance between mechanical and processing properties.
PP040C1E	Homopolymer	3	2,000	4	CL/AS	High transparency and stiffness.
PB131N5E	Impact Copolymer	1.3	1,300	> 60	NUC	Trays with excellent rigidity and good behavior at low temperature.
PB140G1F	Impact Copolymer	3.5	1,200	11	-	Good processability and good impact-stiffness balance even at low temperature.
PR230W1F	Random Copolymer	1.6	800	22	-	Good rigidity and transparency with good heat sealing properties.
PR230C1E	Random Copolymer	1.6	850	45	CL	High transparency, gloss, and impact resistance.

CL: Clarifier; NUC: Nucleating agent; AS: Antistatic agent.



We have a Product Stewardship Department which ensures strict compliance with all the legislation governing contact with foodstuffs

Thin wall packaging

PP homopolymers



NEW

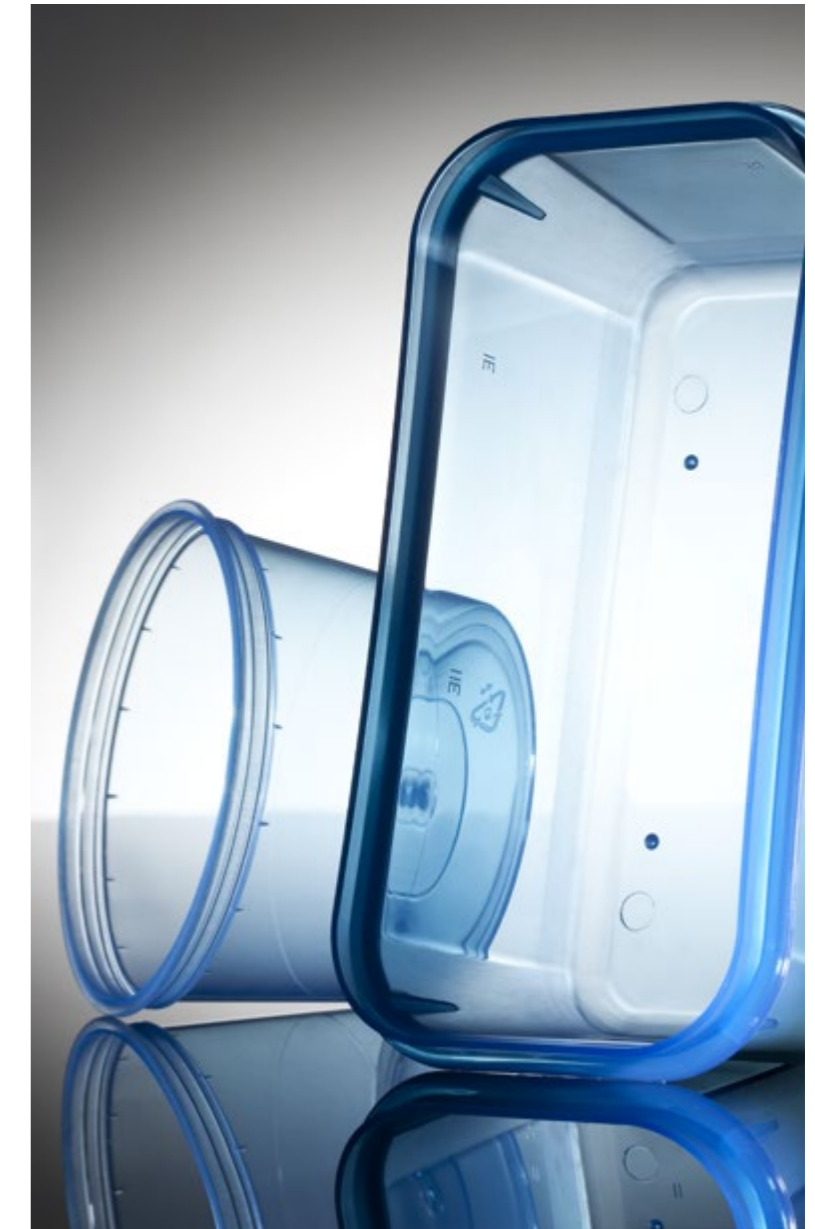
Grade	MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m ²] 23 °C	Additives	Key properties
PP087N2M	25	1,900	3	NUC	High stiffness and outstanding organoleptic properties. Fast cycle.
PP094N2M	40	1,700	2.5	NUC	High fluidity, low warpage.
PP099K2M	55	1,800	2.5	NUC / AS	High fluidity, low warpage, good demolding process.
PP099X2M	55	1,800	2.5	CL / AS	High transparency, high fluidity, low warpage.

CL: Clarifier; NUC: Nucleating agent; AS: Antistatic agent.

PP impact copolymers

Grade	MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m ²] 23 °C	Additives	Key properties
PB190K2M	40	1,300	6	NUC / AS	Good processability and good demolding process.
PB195K3M	45	1,400	8	NUC / AS	High stiffness and high impact resistance. Very thin wall articles. Fast cycle.
PB196K1M	45	1,475	8	NUC / AS	Dimensional consistency. High productivity.
PB199A3M	55	1,200	8.5	AS	Good processability, good demolding process and good impact resistance even at low temperature.
PB300A3M	80	1,350	5	NUC / AS	High productivity, excellent organoleptic properties.
PB500K1M	100	1,450	5.5	NUC / AS	High productivity and stiffness. Very good balance for thin wall articles or with complex geometries.

NUC: Nucleating agent; AS: Antistatic agent.



Thin wall packaging

PP random copolymers



Grade	MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m²] 23 °C	Additives	Key properties
PR290X9M	28	900	9	CL / AS	Very high impact resistance.
RC590S2M	35	1,050	5	CL / AS	Very high transparency and excellent organoleptic properties.
PR590C2M	35	1,050	6	CL / AS	High transparency and excellent organoleptic properties.
PR595C2M	50	1,100	5	CL / AS	High transparency and excellent organoleptic properties.
PR599C2M	75	1,100	6	CL / AS	High transparency and excellent organoleptic properties.
PF600R1M	100	900	5	- / AS	Non-clarified, High productivity and processability and good demolding process.



CL: Clarifier; AS: Antistatic agent.

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



Industrial & food packaging

PP impact copolymers



Grade	MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m²] 23 °C	Additives	Key properties
PB150G2M	7	1,150	10	-	Industrial general purposes.
PB151U5M	7	1,150	> 40	-NUC / UV	Big containers, boxes, technical pieces.
PB170G2M	12	1,150	10	-	Industrial general purposes.
PB171H1M	12	1,100	12.5	NUC	Big containers, boxes, batteries.
PB179K1M	12	1,400	12	NUC / AS	Dimensional consistency. Excellent fluidity behavior.
PB176N4M	15	1,600	6	NUC	Dimensional consistency. High stiffness.
NEW PB189K1M	20	1,450	10	NUC / AS	High stiffness and good impact.
PB183N2M	22	1,050	> 20	NUC / AS	Excellent Impact even at low temperatures.
PB190K2M	40	1,300	6	NUC / AS	Industrial general purposes.
PB195K3M	45	1,400	8	NUC / AS	Dimensional consistency. High productivity.
PB196K1M	45	1,475	8	NUC / AS	Dimensional consistency. High productivity.
PB199A3M	55	1,200	8.5	AS	Good processability, good demolding process and good impact resistance even at low temperature.
PB300A3M	80	1,350	5	NUC / AS	High productivity, excellent organoleptic properties.
PB500K1M	100	1,450	5.5	NUC / AS	High productivity and stiffness. Very good balance for thin wall articles or with complex geometries.



NUC: Nucleating agent; AS: Antistatic agent; UV: Ultraviolet.

Industrial & food packaging

PP random copolymers



Grade	MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m ²] 23 °C	Additives	Key properties
NEW PR570C3M	12	1,000	6	CL / AS	Very high transparency and excellent organoleptic properties.
PR580C2M	22	1,100	6	CL / AS	High transparency and excellent organoleptic properties.
PR290X9M	28	900	9	CL / AS	Really high impact resistance, low temperature.
PR590C2M	35	1,050	6	CL / AS	High transparency and excellent organoleptic properties.
RC590S2M	35	1,050	5	CL / AS	Very high transparency and excellent organoleptic properties.
PR595C2M	50	1,100	5	CL / AS	High transparency and excellent organoleptic properties.
PR599C2M	75	1,100	6	CL / AS	High transparency and excellent organoleptic properties.
PF600R1M	100	900	5	- / AS	Non-clarified, high productivity and processability and good demolding process.



CL: Clarifier; AS: Antistatic agent.

All the activities of the Chemical Division at Repsol are ISO 9001 quality certified. Our industrial facilities meet the ISO 14001, ISO 50001, and 45001 standards



Caps & closures

PP homopolymers



Grade	MFI ISO 1133 (g/10 min) 230 °C / 2.16 Kg	Flexural modulus ISO 178 (MPa)	Charpy notched ISO 179 (KJ/m ²) 23 °C	Additives	Key properties
PP050G2M	6	1,500	3	-	General purposes.
PP064W1F	9	1,500	4	-	General purposes.
PP064M1F	9	1,500	4	S / AB	Closures with integrated hinges.
PP064S2F	9	1,500	4	S / AB / AS	Closures with integrated hinges.
PP070G2M	12	1,550	2.5	-	Fast cycle, easy flowing.
PP080G2M	20	1,600	3	-	Fast cycle, easy flowing.
PP084D2M	20	1,400	3.5	S	Low closure / opening torque.
NEW PP087N2M	25	1,900	3	NUC	High stiffness and outstanding organoleptic properties. Fast cycle.
PP094N2M	40	1,700	2.5	NUC	Excellent dimensional consistency.

NUC: Nucleating agent; AS: Antistatic agent, AB: Antiblock; S: Slip agent.



Caps & closures

PP impact copolymers



Grade	MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m²] 23 °C	Additives	Key properties
PB150G2M	7	1,150	10	-	General purposes.
PB154M1F	7	1,100	15	S / AB	General purposes.
PB170G2M	12	1,150	10	-	General purposes.
PB179K1M	12	1,400	12	NUC / AS	Dimensional consistency. Easy flowing.
PB176N4M	15	1,600	6	NUC	Dimensional consistency. High stiffness.
PB180G2M	20	1,200	8	-	General purposes.
NEW PB189K1M	20	1,450	10	NUC / AS	High stiffness and good impact.
PB183N2M	22	1,050	> 20	NUC / AS	High impact resistance.
PB190K2M	40	1,300	6	NUC / AS	Dimensional consistency. High productivity.

NUC: Nucleating agent; AB: Antiblock; AS: Antistatic agent; S: Slip agent.



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



Caps & closures

PP random copolymers



Grade	MFI ISO 1133 [g/10 min] 230 °C / 2.16 Kg	Flexural modulus ISO 178 [MPa]	Charpy notched ISO 179 [KJ/m²] 23 °C	Additives	Key properties
PR264G1F	8.5	900	6	-	Excellent organoleptic properties.
PR264M1F	8.5	900	6	S / AB	Excellent organoleptic properties.
PR264S2F	8.5	900	6	AS / S / AB	Excellent organoleptic properties.
NEW PR570C3M	12	1,100	6	CL / AS	Very high transparency and excellent organoleptic properties.
PR580C2M	22	1,100	6	CL / AS	High transparency and excellent organoleptic properties.
PR290X9M	28	900	9	CL / AS	Really high impact resistance, low temperature.
PR590C2M	35	1,050	6	CL / AS	High transparency and excellent organoleptic properties.
RC590S2M	35	1,050	5	CL / AS	Very high transparency and excellent organoleptic properties.

CL: Clarifier; AB: Antiblock; AS: Antistatic agent; S: Slip agent.

Caps and closures with high transparency, excellent organoleptic properties, and excellent high impact resistance



Caps & closures

Polyethylene



Grade		Density	MFI	Flexural modulus	Key properties
		ISO 1183 [Kg/m ³]	ISO 1133 [g/10 min]	ISO 178 [MPa]	
4910	HDPE	949	0.9	800	General purposes.
1970M	LDPE	920	7	140	General purposes.
PE017	LDPE	919	8	150	General purposes.
PE019	LDPE	919	20	150	General purposes.
PE022	LDPE	915	70	100	General purposes.
2322M	LDPE	923	22	150	General purposes.



Grades that adapt to the design and their process of manufacturing guaranteeing the properties of the contents hermetically packaging

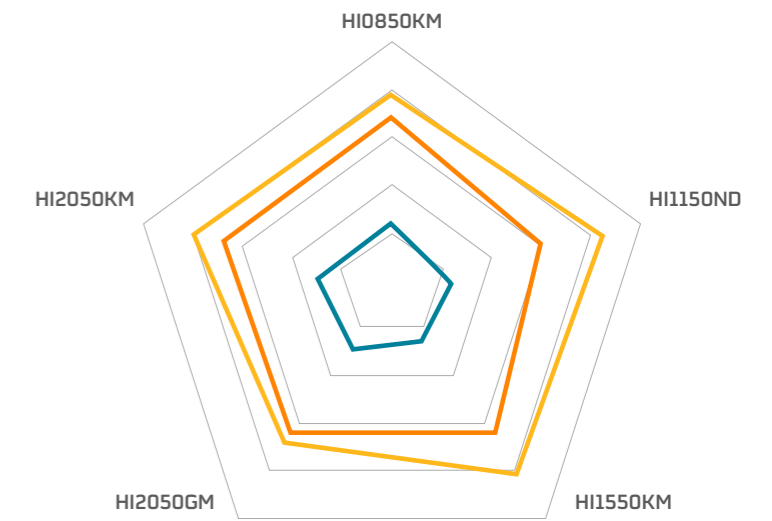


Technical parts & compounding

Repsol Impacto[®] PP



Grade	MFI ISO 1133 (g/10 min) 230 °C / 2.16 Kg	Flexural modulus ISO 178 (MPa)	Charpy notched ISO 179 (kJ/m ²) 23 °C	Additives	Key properties
NEW HI0850KM	8	1,000	60	NUC / AS	Excellent impact resistance, even at low temperatures.
NEW HI1150ND	11	1,200	45	NUC	Excellent solution for high impact/stiffness applications.
HI1550KM	15	1,000	60	NUC / AS	Excellent impact resistance, even at low temperatures.
HI2050GM	20	800	60	-	Excellent impact resistance, even at low temperatures.
HI2050KM	20	1,000	60	NUC / AS	Excellent impact resistance, even at low temperatures.



NUC: Nucleating agent; AS: Antistatic agent.



Industrial packaging & technical parts

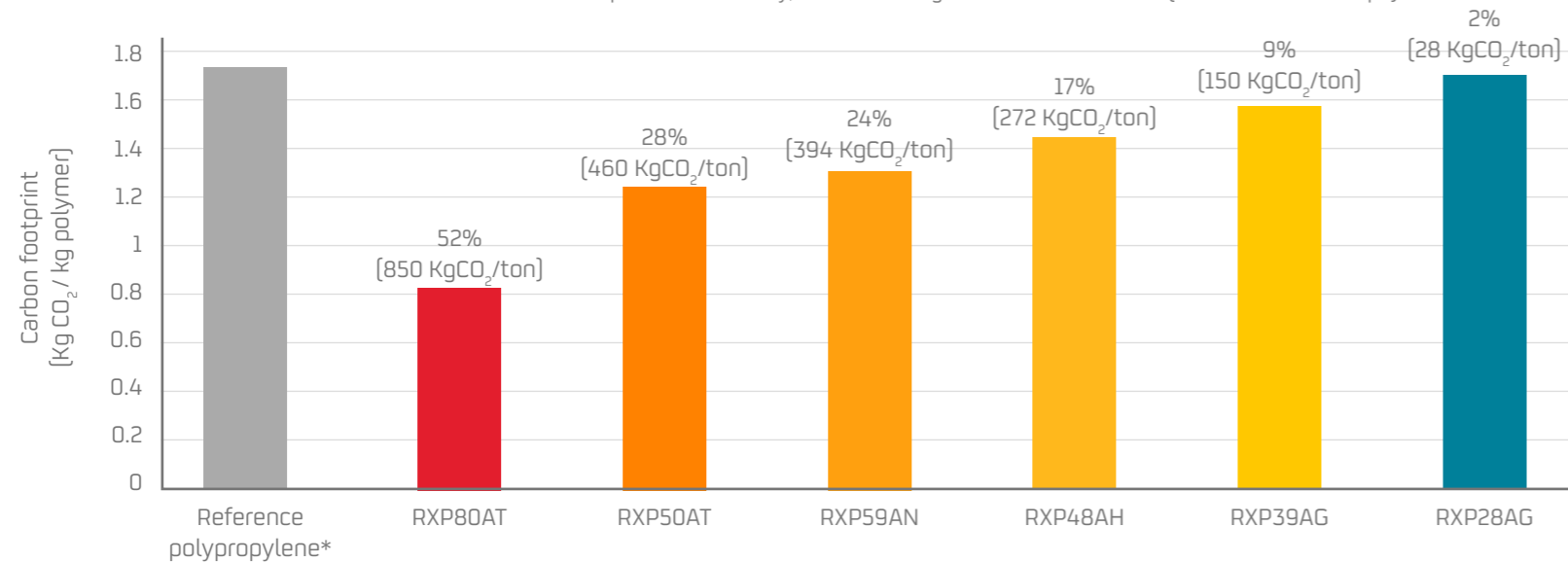
Repsol Reciclex[®] PP



Grade	MFI ISO 1133 (g/10 min) 230 °C / 2.16Kg	Density (g/cm ³)	Color	Flexural modulus MPa	Charpy impact strength 23°C, notched (kJ/m ²)	% Recycled post consumer material	Application
RXP28AG	20	905	RAL similar to 7038	1,250	7.5	20	Domestic and leisure furniture. Square boxes and round storage containers for consumer appliances. Industrial components: sports, leisure, automotive, storage organizers, packaging...
RXP59AN	30	910	RAL similar to 7038	1,300	5	50	Domestic and leisure furniture. Square boxes and round storage containers for consumer appliances. Thin-walled containers for non-food contact. Flowerpot, buckets, storage organizers, lids, waste containers and trays...
RXP50AT	40	935	Similar to RAL 7038 and 9016	1,450	4	50	Domestic and leisure furniture. Square boxes and round storage containers for consumer appliances. Thin-walled containers for non-food contact. Flowerpot, buckets, storage organizers, waste containers and trays...
RXP80AT	40	940	Similar to RAL 7038	1,200	4.5	80	Domestic and leisure furniture. Square boxes and round storage containers for consumer appliances. Thin-walled containers for non-food contact. Flowerpot, buckets, storage organizers, lids, waste containers and trays...
RXP48AH	16	905	Similar to RAL 7038	1,550	4	40	Domestic and leisure furniture. Square boxes and round storage containers for consumer appliances. Industrial components: sports, leisure, automotive, storage organizers, packaging...
RXP39AG	28	910	Similar to RAL 7038 and 7021	1,200	5.5	30	Domestic and leisure furniture. Square boxes and round storage containers for consumer appliances. Thin-walled containers for non-food contact. Flowerpot, buckets, storage organizers, lids, waste containers and trays...

Carbon footprint saving

The results are based on Repsol internal study; has not undergone ISO critical reviews [Source: PlasticsEurope]



Safety and 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 achieve the commitment made to our customers, stakeholders, employees, suppliers / partners, and society to build a better future.

Petrochemical complexes and logistics centers all have ISO 45001. **We are food safety leaders.** All our facilities are FSSC 22000 certified in recognition of 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 that use recycled plastic waste as raw material,** and this certification is an example of our commitment to promote the Circular Economy of our materials.

Certifications

Petrochemical plants, plants and logistics	All industrial complex	Puertollano, Tarragona and Monzón plants	Puertollano and Monzón plants	Puertollano, Tarragona and Sines
ISO 45001	FSSC 22000	IATF 16949	UNE-EN 15343	ISO 50001
	All petrochemical plants			ISO 14001
	ISO 9001			ISO 14064
	ISCC Plus			





Environment

We offer sustainable solutions for our clients: 100% recyclable polyolefins.

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.

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.

Repsol's purpose is 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.

Collaboration

Results orientation

Inspiring leadership

Intrapreneurship

Accountability



Chemicals Customer Care

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