Fostering a circular economy for a more sustainable future


WENEW WENEW WENEW

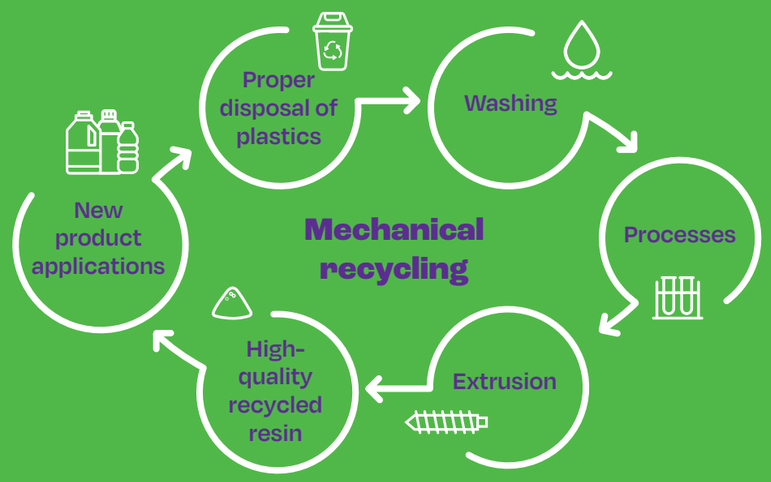
How do we produce our circular solutions?

Braskem's circular products are the result of plastic waste recycling and recovery processes.

We invest in innovative recycling and waste recovery technologies because we want to go beyond this step by expanding the circular economy more and more. Get to know our Wenew portfolio!

Mechanical recycling

The process of crushing post-consumer plastic into smaller pieces that, after going through the extrusion process, are transformed into recycled resins for the most diverse applications.

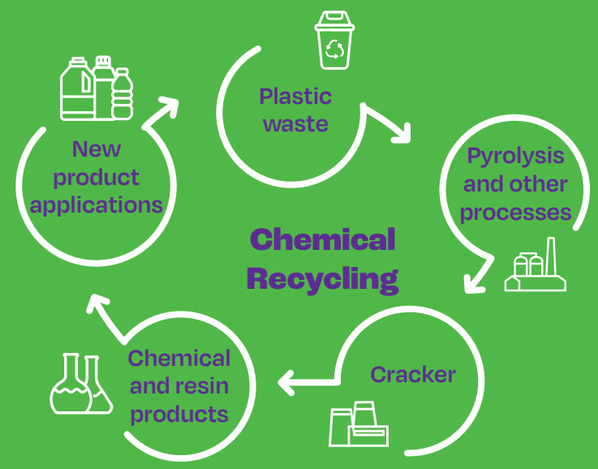


Check on the next pages Wenew's global portfolio of products with recycled content.

Chemical Recycling

Process of breaking down post-consumption plastic molecules, with the alteration of its physical-chemical properties, to generate circular raw material used in the manufacturing of new chemicals or resins, with the same quality as the conventional ones and for the most diverse applications.

Braskem's units in Brazil, the United States and Europe have the ISCC Plus (International Sustainability and Carbon Certification) certification to produce chemicals and plastics from circular raw materials.



Braskem is investing in chemical recycling technology to soon make it a reality.

Waste recovery

Process for recovering products derived from the manufacture of other Braskem solutions, generating maximum use of raw materials and reducing waste.

Check out Wenew's portfolio of circular products on the following pages.

Make the shift your company and the world need

When you use our circular solutions in your products, you are joining a new economy that is thriving and helping to transform the world.

Wenew portfolio: get to know our circular solutions

Resins with recycled content

A portfolio of recycled polyethylene (rPE), polypropylene (rPP), ethylene-vinyl acetate (rEVA) and polyvinyl chloride (rPVC) resins that unites high quality, performance, and sustainability.

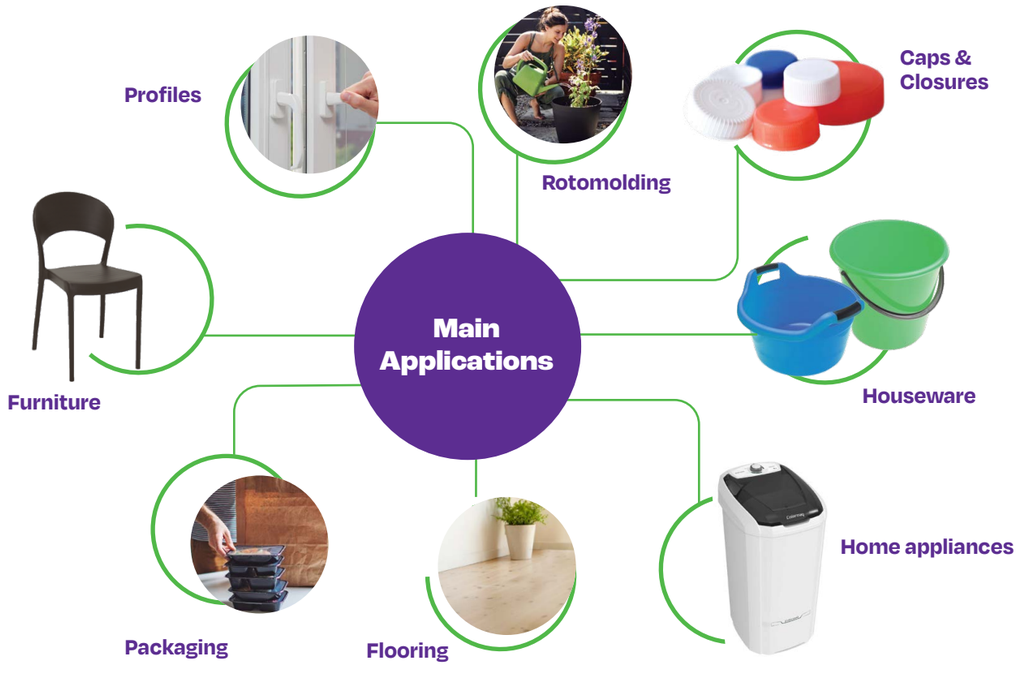
Food-grade options
for packaging
Commercialization in the United States and Mexico

New grades
under development

Carbon neutral and low carbon solutions
for blow molding, injection molding & extrusion
Resins with post-consumer recycled and measurable renewable content

Rigid

The concept of circular economy is increasingly present both in the design of rigid packaging and in its manufacturing process. Wenew's portfolio of resins for rigid products was developed to meet the needs of the most diverse markets, delivering quality, traceability, and safety, in line with the high technical requirements of the applications.



Flexibles

The transition to a circular economy brings a new look to the development of packaging and the communication of brands with the consumer. This transformation encompasses the understanding of new materials and concepts, extending to the importance of proper waste disposal and the summation of forces to achieve plastic circularity. Wenew's portfolio of resins for flexible products collaborates to add value to brands by ensuring quality, differentiation, and more sustainability.

Merely illustrative exemplary applications. The possibility of using this product for a specific purpose may change according to the country and should be analyzed by the interested party. Braskem does not guarantee the possibility of using the product with other materials for the desired application. Please check the RIS (Regulatory Information Sheet) or contact Braskem for specific regulatory information.

Circular Chemicals

The Wenew chemicals portfolio has circular options developed from the manufacturing process of other Braskem products.

New solutions under development

Maximum use of raw material

Waste **Reduction**

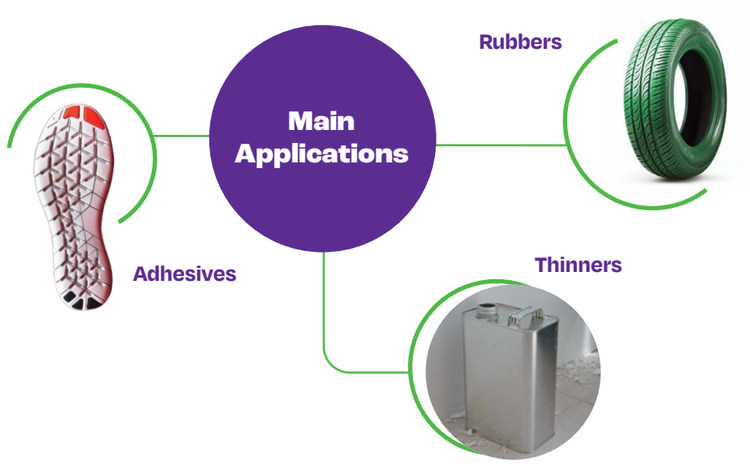
Circular Vinyl Acetate

Circular Vinyl Acetate is a monomer recovered from the polyolefin production process, combining circularity and local production. It is a sustainable solution that can be applied in the adhesives market.

Main Applications

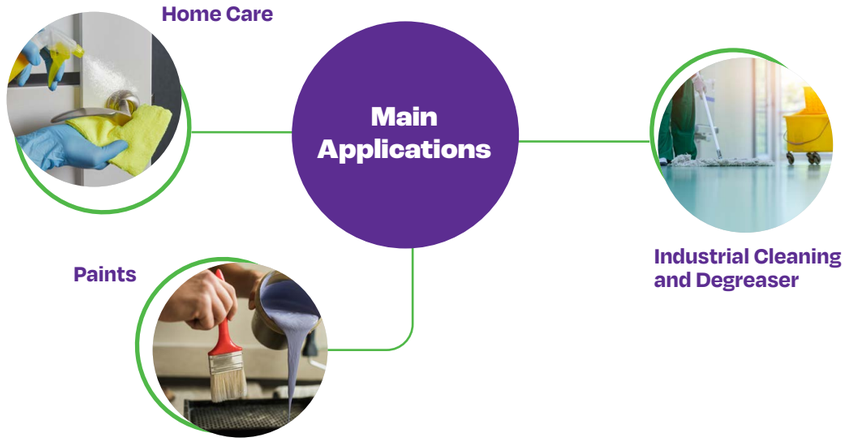
Circular Hexane

Braskem's first circular solvent, presents the market with a competitive and quality alternative, combining sustainability and performance in the same product. Aliphatic hydrocarbon solvent from the polyolefin production process, Circular Hexane can be applied in the adhesives, rubbers, and thinners markets, among others.



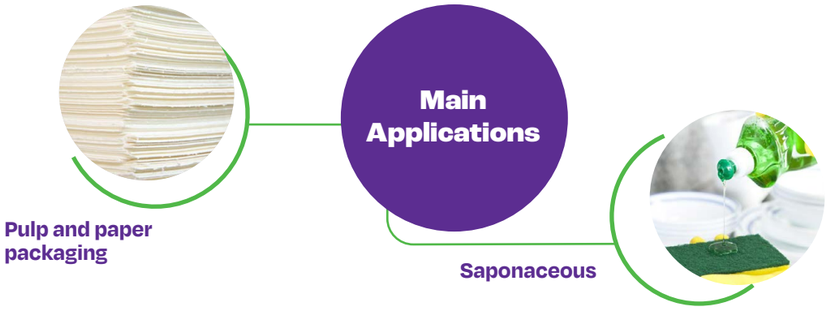
Circular Sensitis 17/21

Sensitis 17/21 Circular is an isoparaffinic hydrocarbon solvent that combines circularity, local production and high performance, being a complete sustainable solution for different applications. Also obtained from the polyolefin production process, Sensitis 17/21 Circular has a very low concentration of aromatic compounds and low reactivity and toxicity, resulting in a solvent that is safer for people and the environment.



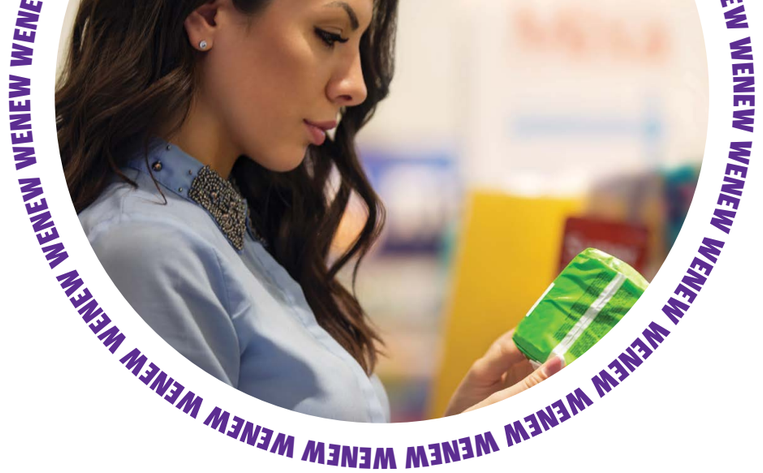
Circular Caustic

Our recycled alkaline solution is produced in a circular process in our cracker. It offers high caustification efficiency and contains sulfides — making it a viable alternative for chemical substitution. It supports circular economy practices by reducing waste and reintegrating process streams into new production cycles, while minimizing water usage and the demand for virgin, fossil-based, or mineral feedstock. A solution for industries seeking operational efficiency with reduced environmental impact.



Merely illustrative exemplary applications. The possibility of using this product for a specific purpose may change according to the country and should be analyzed by the interested party. Braskem does not guarantee the possibility of using the product with other materials for the desired application. Please check the RIS (Regulatory Information Sheet) or contact Braskem for specific regulatory information.

Wenew Portfolio



Braskem has circular solutions available in all the regions where it operates. A diversified portfolio that is constantly growing, the result of research and development to meet the needs of a changing world and to collaborate with the sustainability goals of our customers and brand owners.

Wenew Chemicals and Resins South America

Polyethylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 190 °C/2.16 kg (g/10 min)	MFI 190 °C/5.0 kg (g/10 min)	DENSITY (g/cm³)	PROCESSABILITY	DROP TEST	CHEMICAL RESISTANCE	SEALABILITY	TEAR RESISTANCE
Rigid	HDPE	RPR 5C4 BK	Caps	Black	1,8	-	0,955	**	**	**	-	-
	HDPE	DAR 001A	Pipes/Extrusion	Black	-	0,55	0,955	***	-	***	-	-
	HDPE	DAR 002A	Blow molding/Extrusion	White	0,15	-	0,960	**	***	***	-	-
	HDPE	DAR 023A	Rotomolding	White	4,0	-	0,934	**	***	**	-	-
Flexible	LLDPE	DL085C	Stretch Film	Translucid	2,4	-	0,921	***	-	-	***	**
	LLDPE	DLR 002A	Stretch Hood	Translucid	2,0	-	0,923	***	-	-	***	***
	LLDPE	RPL001 BE0	FFS / General Bags	Translucid	0,4	-	0,925	**	-	-	***	**
	LLDPE	RPL001 WE0	FFS / General Bags	White	0,4	-	0,925	**	-	-	***	**
	LLDPE	RPL004 BE0	FFS / General Bags	Translucid	0,4	-	0,925	**	-	-	***	**
	LLDPE	DLR 006B	Shrink Film	Translucid	0,7	-	0,925	**	-	-	***	***
	LLDPE	DLR 007A	FFS / General Bags	Translucid	1,2	-	0,925	***	-	-	***	**

Polypropylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 230 °C/2.16 kg (g/10 min)	PROCESSABILITY	STIFFNESS	DROP TEST
Rigid	PP HOMO	RPH 0J7 BK	Injection Molding	Black	10	**	***	*
	PP HOMO	RPH 0J7 WE	Injection Molding	White	10	**	***	*
	PP COPO	RPP237 BK6	Injection Molding	Black	24	***	**	**
	PP HOMO	RPP237 BK7	Injection Molding	Black	12	**	***	*
	PP COPO	RPP237 WE6	Injection Molding	White	24	***	**	**
	PP HOMO	DPR 011AB	Injection Molding	Natural	10	**	***	*
	PP HOMO	DPR 010AW	Injection Molding	White	50	***	***	*
	PP HOMO	DPR 013AW	Injection Molding	Black	35	***	***	**
Flexible	PP HOMO	RPH 0J7 XP	Raffia	Grey	4,5	***	-	-

Braskem has 12 production facilities in South America that are certified to produce bio-circular and circular resins and chemicals under the ISCC PLUS certification via the mass balance approach.

Wenew Chemicals and Resins South America

Ethylene Vinyl Acetate Copolymer

	FAMILY	CODE	APPLICATION	COLOR	PROCESSABILITY	VINYL ACETATE CONTENT (%)	SHRINKAGE	HARDNESS
Rigid	EVA	RVA001 NL6	Expanded and reticulated boards for the footwear, furniture and other industries.	Natural	**	**	***	**
Flexible	EVA	RSVA002 NL5	Injection Molding, Shoesoles	Natural	***	***	**	***

Caustic Circular

RELATIVE DENSITY (g/l)	PH	BOILING POINT (°C)	MELTING POINT (°C)
1	14	100	-5

Circular Hexane

Aliphatic Hydrocarbons

RELATIVE EVAPORATION RATE (BUTYL ACETATE = 100)	HANSEN SOLUBILITY PARAMETERS ((J/cm³)^1/2)			SOLUBILITY (% mass) at 20°C		FLASH POINT (°C)	DISTILLATION RANGE AT 760 mmHg (°C)	DENSITY (20/4 °C)
	δD	δP	δH	SOLVENT IN WATER	WATER IN SOLVENT	CLOSED CUP		
830	14.9	0.0	0.0	IMMISCIBLE	IMMISCIBLE	-26.0	58 - 80	0.670

Circular Sensitis 17/21

Isoparaffinic Hydrocarbons

RELATIVE EVAPORATION RATE (BUTYL ACETATE = 100)	HANSEN SOLUBILITY PARAMETERS ((J/cm³)^1/2)			SOLUBILITY (% mass) at 20°C		FLASH POINT (°C)	DISTILLATION RANGE AT 760 mmHg (°C)	DENSITY (20/4 °C)
	δD	δP	δH	SOLVENT IN WATER	WATER IN SOLVENT	CLOSED CUP		
8	15.4	0.0	0.0	IMMISCIBLE	IMMISCIBLE	52.0	170 - 210	0.750

Circular Vinyl Acetate

FLASH POINT (°C)	VISCOSITY (CP)	DENSITY (20/4ºC)	ACIDITY (PPM)	WATER (PPM)
-1	0,3	0,9	5.000	1.000

Wenew Chemicals and Resins North America

Polyethylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 190 °C/2.16 kg (g/10 min) Min	MFI 190 °C/2.16 kg (g/10 min) Max	DENSITY (g/cm³)	PROCESSABILITY	STIFFNESS	DROP TEST	CHEMICAL RESISTANCE	SEALABILITY	TEAR RESISTANCE	FOOD CONTACT
Rigid	HDPE	RPR 0A2 NL	Blow molding/Extrusion	Natural	0.5		0.957	***	**	**	**	-	-	No
	HDPE	RPR 0A2 XP	Blow molding/Extrusion	Natural	0.5		0.957	***	**	**	**	-	-	Expected 3Q25

Polypropylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 230 °C/2.16 kg (g/10 min) Min	MFI 230 °C/2.16 kg (g/10 min) Max	PROCESSABILITY	STIFFNESS	DROP TEST	DIMENSIONAL STABILITY	FOOD CONTACT
Flexible	PP COPO	RPP112 GY2	Thermoforming	Gray	3		-	-	-	-	This product meets the requirements for certain FDA Food Contact Applications
	PP COPO	RPP117 GY2	Injection Molding - Caps & Closures	Gray	16		-	-	-	-	This product meets the requirements for certain FDA Food Contact Applications
	PP COPO	RPP103 GY5	Injection Molding - Caps & Closures	Gray	22		-	-	-	-	No
	PP COPO	RPP101 GY5	Extrusion	Gray	3		-	-	-	-	No
	PP COPO	RPI 0R2 BK	Compounding – Auto/ Industrial	Black	35		-	-	-	-	No
	PP COPO	RPI 0R2 GY	Compounding – Auto/ Industrial	Gray	35		-	-	-	-	No
	PP COPO	RPP128 GY0	Injection Molding – Compounding	Gray	14		-	-	-	-	No
	PP HOMO	RPH 0E1 NL	Blow molding/Thermoforming/Cast Film	Natural	2.5		***	**	-	***	No
	PP RACO	RPH 0E1 XP	Blow molding/Thermoforming/Cast Film	Natural	2.5		***	**	-	***	Expected 3Q25
	PP RACO	RPP 031NL0	Injection - Caps & Closures	Natural	16		***	**	-	**	No
	PP RACO	RPP 031 XP0	Injection - Caps & Closures	Natural	16		***	**	-	**	Expected 3Q25

All Braskem America production facilities are certified to produce bio, bio-circular, and circular polypropylene under the ISCC PLUS certification via the mass balance approach.

Wenew Chemicals and Resins Europe

Polyethylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 190 °C/2.16 kg (g/10 min) Min	MFI 190 °C/2.16 kg (g/10 min) Max	DENSITY (g/cm³)	PROCESSABILITY	STIFFNESS	DROP TEST	CHEMICAL RESISTANCE	SEALABILITY	TEAR RESISTANCE	FOOD CONTACT (FDA)
Rigid	HDPE	RPR 3A1 NL/LO/XP	Extrusion/Blow molding	Natural	0,38		0,955	***	***	***	***	-	-	Ongoing
	HDPE	RPR 5A1 WE/LO/XP	Extrusion/Blow molding	Natural	0,4		0,955	***	***	***	***	-	-	Ongoing
	HDPE	RPR 7A1 NL/LO/XP	Extrusion/Blow molding	Natural	0,18		0,955	***	***	***	***	-	-	Ongoing
	HDPE	RPR 0A2 NL/LO/XP	Extrusion/Blow molding	Natural	0,5		0,957	***	**	**	**	-	-	Ongoing
	HDPE	RDH 002A	Extrusion/Blow molding	Natural	0,5		> 0,945	***	***	-	-	-	-	No
	HDPE	RDH 003A	Extrusion/Blow molding	White	0,5		> 0,945	***	***	-	-	-	-	No
	HDPE	RDH 004A	Extrusion/Blow molding	Light grey	0,3		> 0,945	***	***	-	-	-	-	No
	HDPE	RDH 005A	Extrusion/Blow molding	Natural	0,4		> 0,945	***	***	-	-	-	-	No
	HDPE	RDH 009A	Injection molding	Grey	5		>0,945	**	**	-	-	-	-	No
	HDPE	DA 080A	Injection molding	Green	4		>0,945	**	***	-	-	-	-	No
Flexible	LLDPE	RDL 001A	Film extrusion	Amber	1,1		< 0,940	**	-	-	-	***	**	No
	LLDPE	RPL 0C2 WE	Film extrusion	White	0,6		< 0,940	***	-	-	-	***	***	No
	LLDPE	RGL 5C2 WE	Film extrusion	White	0,8		< 0,940	***	-	-	-	***	***	No
	LLDPE	RDL 004A	Film extrusion	Natural	0,6		<0,940	***	-	-		***	**	No

Polypropylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 230 °C/2.16 kg (g/10 min) Min	MFI 230 °C/2.16 kg (g/10 min) Max	PROCESSABILITY	STIFFNESS	DROP TEST	DIMENSIONAL STABILITY	FOOD CONTACT
Rigid	PP COPO	DP 234A	Injection molding	Grey	40		***	**	***	-	No
	PP COPO	DP 234B	Injection molding	Anthracite	40		***	**	***	-	No
	PP COPO	DP 235A	Injection molding	Grey	12		***	***	**	-	No
	PP HOMO	RDP005A	Injection molding	Grey	35		***	-	-	-	No

Wenew Chemicals and Resins Mexico

Polyethylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 190 °C/2.16 kg (g/10 min)	DENSITY (g/cm³)	PROCESSABILITY	STIFFNESS	DROP TEST	CHEMICAL RESISTANCE	SEALABILITY	TEAR RESISTANCE	FOOD CONTACT
Rigid	HDPE	RPR 3A1 XP / RPR 3A1 NL	Blow molding/Extrusion	Natural	0.38	0.955	***	***	***	***	-	-	Expected Q325 (XP)
	HDPE	RPR 5A1 XP / RPR 5A1 WE	Blow molding/Extrusion	Natural	0.4	0.955	***	***	***	***	-	-	Expected Q325 (XP)
	HDPE	RPR 7A1 XP / RPR 7A1 NL	Blow molding/Extrusion	Natural	0.18	0.955	***	***	***	***	-	-	Expected Q325 (XP)
	HDPE	RPR 0A2 XP / RPR 0A2 NL	Blow molding/Extrusion	Natural	0.5	0.957	***	**	**	**	-	-	Expected Q325 (XP)
	HDPE	RSR041 XP3/NL3 (Carbon Neutral)	Blow molding/Extrusion	Natural	0.4	0.955	***	***	***	**	-	-	Expected Q325 (XP)
	HDPE	RPR034 LO0 / RPR 0A2 WE	Blow molding/Extrusion	White	0.44	0.963	***	**	**	**	-	-	No
	HDPE	RPR064 LO0 / RPR 0A2 GN	Blow molding/Extrusion	Green	0.44	0.963	***	**	**	**	-	-	No
	HDPE	RPR067 LO0 / RPR 0A2 BL	Blow molding/Extrusion	Blue	0.44	0.963	***	**	**	**	-	-	No
	HDPE	RPR 0A2 GY	Blow molding/Extrusion/PIpes	Dark Gray	0.47	0.959	***	**	**	**	-	-	No
	HDPE	RPR021 XP3 / RPR021 NL3	Injection Molding	Natural	4.0	0.952	***	***	***	**	-	-	Expected Q325 (XP)
	HDPE	RPR020 WE3	Injection Molding	White	3.0	0.955	***	***	***	**	-	-	No
Flexible	LDPE	RPL 5C1 NL	Film Extrusion	Natural	1.85	0.921	**	-	-	-	***	***	No

Polypropylene

	FAMILY	CODE	APPLICATION	COLOR	MFI 230 °C/2.16 kg (g/10 min) Min	MFI 230 °C/2.16 kg (g/10 min) Max	PROCESSABILITY	STIFFNESS	DROP TEST	DIMENSIONAL STABILITY	FOOD CONTACT
Rigid	PP RACO	RPH 0E1 XP / RPH 0E1 NL	Blow molding/Thermoforming	Natural	2.5		***	**	-	***	Expected Q325 (XP)
	PP RACO	RPP031 XP0 / RPP031 NL0	Injection - Caps & Closures	Natural	16		***	**	-	***	Expected Q325 (XP)
	PP RACO	RPP032 XP0 / RPP032 NL0	Injection - Compounding	Natural	20		**	***	-	***	Expected Q325 (XP)
	PP HOMO	RPP008 XP2 / RPP008 NL2	Injection - Caps & Closures	Natural	8		**	***	-	***	Expected Q325 (XP)

Braskem:
Global presence

With a global, human-oriented vision of the future, Braskem strives every day to improve people's lives by creating sustainable solutions in chemistry and plastics. Braskem is the largest producer of thermoplastic resins in the Americas and a global leader in the production of biopolymers on an industrial scale.
Our products are exported to some 70 countries and we count on 40 industrial units, located in Brazil, the United States, Germany and Mexico (in partnership with Mexican company Idesa).

For more information, visit www.braskem.com.

+ 8.000
team members

40
industrial units
29 plants in Brazil
5 plants in USA
4 plants in Mexico
2 plants in Germany

Export to customers in about
70
countries

6th largest producer in PE, PP and PVC

#1 Producer PE, PP and PVC in the **Americas**

#1 PP producer in **North America**

#1 PE, PP and PVC producer in **Latin America**

The transition to the circular economy has already begun. Let's be part of this journey together?

Talk to our team!

09 | 2025

Braskem