

Polypropylene for Rigid Packaging Applications



Braskem



Innovation is the tool that drives us in the pursuit of our **long-term commitments with sustainable development**



Our purpose is to improve people's lives by creating sustainable solutions through chemicals and plastics.

In line with the **UN 2030 sustainable development goals**, Braskem took on long-term goals with people and the planet in 2020. Working in three priority and four complementary dimensions, we are looking to achieve these goals through innovation.



Eliminating plastic waste



Mitigating Climate Change



Social Responsibility & Human Rights

An **ecosystem** developed to represent Braskem's **products, technologies** and initiatives that **help drive the circular economy**.



All our polypropylene grades are available with **ISCC+ certification**, using the **mass balance method with bio, circular or bio-circular feedstocks***, ensuring sustainability and traceability across the supply chain.

Rigid Packaging

Braskem's **polypropylene is a versatile material used in a wide range of rigid packaging** applications such as cold chain, transparent packaging, food containers and beverage caps. Polypropylene is modified with specific additives and stabilizers to meet the individual needs of manufacturers, offering **cost-effective, innovative solutions** that enhance packaging strength, durability and product protection.



*www.iscc-system.org/certification/iscc-documents/iscc-material-lists/



Injection Molding

Injection molding is used to manufacture packaging including containers for food and beverage. Braskem offers a diverse range of PP products that deliver excellent processing, mechanical and optical properties.

INSPIRE 252

Ultra-clear polypropylene homopolymer designed to replace polystyrene in injection molding applications.

Key benefits:

- Outstanding transparency
- Extreme stiffness
- Food approved even for microwave applications



Thermoforming

Thermoforming creates lightweight, high-clarity packaging like trays, lids, and clamshells for food and retail products. Braskem's PP resins ensure food packaging quality, organoleptics and high product safety for lightweight, durable packaging.

INSPIRE 122

Advanced polypropylene copolymer offering unmatched properties for food packaging solutions such as seafood and meat trays (MAP).

Key benefits:

- Excellent transparency
- High stiffness for outstanding top load properties
- Superior impact strength
- Easy processing and blending with Homo-PP (e. g. INSPIRE 215)

INJECTION MOLDING

		Melt Flow Index (230 °C / 2,16 kg)	Flexural Modulus	Notched Charpy Impact Resistance @23 °C	Additives*
	Method	ISO 1133	ISO 178	ISO 179	-
	Units	g/10 min	MPa	kJ/m ²	-
HOMO	DH789.01	50	1700	2,5	N, AS
		balanced physical properties , excellent organoleptics ; easy processing , low warpage ; thin wall injection molding , short cycle times			
	H734-52RNA/2	52	1800	2,5	N, AS
		balanced physical properties ; easy processing , low warpage ; thin wall injection molding , short cycle times			
	F1000HC2	110	2200	1,5	N
		high crystallinity for superior stiffness, high flowability ; designed for thin wall injection molding and compounding			
RACO	RSP230NA	23	1200	6	N, AS
		balance of stiffness & impact resistance, very good optical properties , easy processing , good organoleptics ; thin wall injection molding ; caps & closures			
	RG450NA	42	1050	5,5	N, AS
		high flowability , excellent optics & organoleptics (low taste and odor), balance of mechanical properties ; thin wall injection molding like food containers			
	INSPIRE 364	42	1050	5,5	N, AS
		high flowability , excellent optics & organoleptics (low taste and odor), balance of mechanical properties ; thin wall injection molding like food containers			
	INSPIRE 382	70	1050	5	N, AS
		high flowability , excellent optics & organoleptics (low taste and odor), balance of mechanical properties; thin wall injection molding for consumer products			
	RSP1000NAR	100	1050	4,5	N, AS
		very high flowability , excellent optics , good stiffness/impact balance; thin wall injection molding for consumer goods, downgauging			
ICP	C705-44NAHP	44	1500	7	N, AS
		high flowability , superior stiffness , good impact performance , excellent antistatic properties ; thin wall injection molding for containers/consumer products			
	CD700NAQ	70	1200	8	N, AS
		high flowability , high impact strength at low temperature , low shrinkage & warpage ; thin wall injection molding for houseware, pails, freezer applications			
	CG700NA	70	1350	6	N, AS
		high flowability , good balance of mechanical properties even at low temperature , good organoleptics ; thin wall injection molding for containers, houseware			
	C7069-100NA	100	1500	5	N, AS
		very high flowability , excellent balance of mechanical properties ; short cycle time injection molding for thin wall containers, food consumer products, downgauging			
SPECIALTY	INSPIRE 252	52	1950	3	N, AS
		specially clarified HomoPP , high flowability , excellent optics (low haze!), superior organoleptics , hot filling ; thin wall injection molding , microwave applications			
	DCP284RD	14	1150	50	N, AS
		superior balance of stiffness and toughness , excellent impact strength , easy processing ; designed for impact requiring containers like medical waste bins/toolboxes			

*Additives: N = Nucleated, AS = Antistatic.



► THERMOFORMING

		Melt Flow Index (230 °C / 2,16 kg)	Flexural Modulus	Notched Charpy Impact Resistance @23 °C	Additives*
	Method	ISO 1133	ISO 178	ISO 179	-
	Units	g/10 min	MPa	kJ/m ²	-
RACO	INSPIRE 318	1,7	900	22	N
		superior clarity, gloss and surface finish ; high distortion temperature ; specially for extrusion blow molding/film extrusion/thermoformed packaging			
ICP	INSPIRE 122	2,2	1400	50	N, AS
		next generation ICP , extremely high impact strength , excellent optics , good organoleptics ; extrusion, thermoformed sheets for thin wall containers			
	DC7056.05	3,5	1000	14	
		Superior impact performance , excellent organoleptics ; sheet extrusion, thermoformed food packaging			
HOMO	INSPIRE 215	2,1	1700	5	N, AS
		superior stiffness/impact balance , high temperature resistance , excellent optical/organoleptic properties ; sheet extrusion, thermoformed food packaging			
	F030HC	3,3	2150	3,5	N
		high crystallinity for superior stiffness ; high temperature resistance for hot filling , good organoleptics ; sheet extrusion, thermoformed food packaging			

*Additives: N = Nucleated, AS = Antistatic

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.



Clients in
more than
70
countries

More than
8.500
team
members

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

40
industrial units:


29 plants


4 plants


5 plants


2 plants

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