

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.





A portfolio of products made from sugarcane that captures CO<sub>2</sub> from cradle-to-gate, helping mitigate climate change.



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.

#### **Automotive & Compounding**

From bumpers and safety relevant parts to under-the-hood components, our polypropylene is a versatile material used across a wide range of automotive applications. As a base resin, it is modified with fillers, colorants, and stabilizers to meet the specific requirements of Tiers and OEMs, delivering cost-effective, innovative design solutions that enhance vehicle safety, durability, and performance.





### **High Impact PP Copolymers**

Our globally available high impact copolymers enable the production of previously unattainable balance of high toughness and stiffness compounds.



#### Key benefits:

- Improved toughness and flowability
- Improved impact properties for high mineral filled compounds
- Higher toughness for FR compounds

### **High Stiffness PP Homopolymers**

Developed for the automotive compounding market, our high crystallinity homopolymers provide premium levels of stiffness, flowability, compounding flexibility, and performance.



#### Key benefits:

- Wide range of melt flow rates
- Enabling higher HDT performance
- High crystallinity





## Low Emission<sup>(1)</sup> & Fogging, High Melt flow PP Copolymers

Low emission impact copolymers meet VDA277 and VDA278 automotive standards. The latest DC705LE.01<sup>(2)</sup> (MFR 44) enables the development of low emission compounds with a broad MFR range for automotive applications.



#### Low emission is attainable without:

- Specialized compounding lines
- Additional treatment after production
- Adding expensive additives



<sup>(2)</sup> Grade currently under development. For more information, please contact our technical or commercial team





		Melt Flow Index (230°C / 2,16 Kg)	Flexural Modulus	Notched Charpy Impact Resistance @23°C	Strength at Yield	Additives*				
	Method	ISO 1133	ISO 178	ISO 179	ISO 527-1	-				
	Units	g/10 min	MPa	kJ/m²	MPa	-				
	DP008H.02	0,8	1500	7	33	-				
Extrusion		enhanced process <b>stabilization</b> , high <b>melt strength</b> , excellent <b>rigidity</b>								
Extr		2,1	1700	5	36	N, AS				
	INSPIRE 215	superior stiffness/impact balance, high temperature resistance, excellent optical/organoleptic properties								
	F030HC	3,3	2150	3,5	40	N				
		high <b>crystallinity</b> for superior stiffness, high <b>temperature resistance</b> , improved <b>VOC performance</b>								
ess	F350HC	35	2000	2,5	40	N				
Stiffness		high <b>crystallinity</b> for superior stiffness, high <b>temperature resistance</b> , improved <b>VOC performance</b>								
	F1000HC2	110	2200	1,5	41	N				
		high <b>crystallinity</b> for superior stiffness, high <b>temperature resistance</b> , improved <b>VOC performance</b> , very high <b>flowability</b>								
	DHSP120.01	12	1650	3,5	39	AS				
		balanced physical properties, excellent flowability, short cycle times								
General	HSP165G	16,5	1500	3,5	34	AGF				
		high <b>stiffness</b> and heat <b>resistance</b> , <b>anti gas fading</b>								
	HSP250NA	25	1650	3	36	N, AS				
		high <b>stiffness</b> and heat <b>resistance</b> , low <b>warpage</b> and short <b>cycle times</b>								
		52	1700	2,5	35	N, AS				
	H734-52RNA2	balanced <b>physical properties</b> , <b>easy processing</b> , low <b>warpage</b> , thin <b>wall injection molding</b> , short <b>cycle times</b>								

<sup>\*</sup>Additives: N = Nucleated, AS = Antistatic, AGF= Anti-gas fading





		Melt Flow Index (230°C / 2,16 Kg)	Flexural Modulus	Notched Charpy Impact Resistance @23 °C	Notched Charpy Impact Resistance @-20°C	Additives*				
	Method	ISO 1133 ISO 178		ISO 179	ISO 179					
	Units	g/10 min	MPa	kJ/m²	kJ/m²	-				
	CSP030N	0,3	1300	70	6	N				
		high molecular weight, low melt flow, very high impact resistance								
Extrusion	INICDIDE 110	0,3	1750	60	2,5	N				
Extrı	INSPIRE 118	high molecular weight, low melt flow, very high stiffness								
	INSPIRE 114	0,5	1500	65	4,5	-				
		high molecular weight, high melt strength								
	CP396XPD	11	1000	60	11	N				
		high <b>stiffness</b> and very high <b>impact resistance</b> , especially at <b>low temperatures</b>								
	CP284RD	14	1150	50	7	N, AS				
<b>.</b>		superior balance of <b>stiffness</b> and <b>toughness</b> , excellent impact <b>strength</b>								
High Impact	CP295D	20	750	60	10	-				
ligh I		high <b>flow</b> and high <b>impact resistance</b>								
I	TI8300CD	30	950	55	9	N				
		high <b>flow</b> and high <b>impact resistance</b> , superior <b>low temperature</b> drop impact								
	DCD600NQ.01	60	700	15	7,5	N				
		high <b>flow</b> and superior <b>low temperature</b> drop impact								
High Stiffness	TI2150C	15	1620	7,2	2,9	N				
		high <b>stiffness</b> , suppressing <b>tiger marking</b>								
	CG350N	35	1500	7,2	3,5	N				
igh St	CG350IN	high flow copolymer with good mold fill ability								
Ξ̈́	TI2900C	110	1600	3,9	2,1	N				
	1123000	high <b>stiffness</b> , supp	ressing <b>tiger marking</b> , h	igh <b>flow</b>						

<sup>\*</sup>Additives: N = Nucleated, AS = Antistatic, AGF= Anti-gas fading





		Melt Flow Index (230°C / 2,16 Kg)	Flexural Modulus	Notched Charpy Impact Resistance @23°C	Notched Charpy Impact Resistance @-20°C	Additives*					
	Method	ISO 1133	ISO 178	ISO 179	ISO 179						
	Units	g/10 min	MPa	kJ/m²	kJ/m²	-					
_	CG150V	15	1100	11	6	-					
issio		low emissions copolymer (acc. VDA277, 278) for automotive interior applications									
Low emission	DC705LE.01	44	1450	7	4	N, AS					
	DC/05LE.01	low emissions copolymer (acc. VDA277, 278) for automotive interior applications									
	CD700NAQ	70	1200	8	3,5	N, AS					
3		high flowability, high impact strength at low temperature, low shrinkage & warpage									
High Meltflow	CG700NA	70	1350	6	3,5	N, AS					
igh M		high <b>flowability</b> , good balance of <b>mechanical properties</b> even at low temperature, good <b>organoleptics</b>									
Ξ	C7069-100NA	100	1400	4	2,5	N, AS					
		very high <b>flowability</b> , excellent balance of <b>mechanical properties</b> , short <b>cycle times</b>									
	C715-12NHP	12	1450	10	4,5	N					
		high stiffness and impact strength									
	C765-15NA	15	1200	12	6,5	N, AS					
		good balance of <b>stiffness and toughness</b> , very low <b>shrinkage</b> , very high <b>elongation</b> at break									
neral	C706-21NAHP	21	1450	8	4,5	N, AS					
Ger		high stiffness and high impact resistance, excellent antistatic properties									
	C7082-30NA	30	1300	8,5	5	N, AS					
		excellent balance of <b>mechanical properties</b> combined with good flow									
	C705-44NAHP	44	1450	7	4	N, AS					
		high flowability, superior stiffness, good impact performance									

<sup>\*</sup>Additives: N = Nucleated, AS = Antistatic, AGF= Anti-gas fading





## **)** BATTERY

			Melt Flow Index (230°C/ 2,16 Kg)	Flexural Modulus	Tensile Modulus	Tensile Strength at yield	Notched Charpy Impact Resistance @23°C	Notched Charpy Impact Resistance @ -20°C	Vicat (A50)	HDT B (0.45 MPa)	Additives*
		Method	ISO 1133	ISO 178	ISO 527	ISO 527	ISO 179	ISO 179	ISO 306	ISO 75	
		Units	g/10 min	MPa	MPa	MPa	kJ/m²	kJ/m²	°C	°C	-
Injection Molding	DCSP50.02	5,5		1300	1200	26	30	6,5	151	88	N
		excellent heat resistance, very high impact resistance									
	CSP70H	7		1450	1350	28	9	4	152	90	-
		excellent long term heat stabilization, good weldability									

<sup>\*</sup>Additives: N = Nucleated, AS = Antistatic, AGF= Anti-gas fading



# **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

More than

8.500

team members

Clients in more than

countries

# 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

industrial units:



29 plants



4 plants

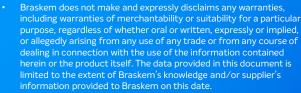


5 plants



2 plants





 This Product should not be used in medical or pharmaceutical applications classified as (i) Class IV under applicable Brazilian law or (ii) Class III under applicable EU law or (iii) highest level risk under applicable United States law (i.e., those applications presenting maximum risk to health and safety of patient, operator, consumer or third parties).

It is the Purchaser's responsibility to verify the suitability of Braskem's Product for the intended use, to obtain the necessary competent government approvals and to ensure compliance with any applicable legal and regulatory requirements. Moreover, Purchaser acknowledges and accepts the responsibility to determine and perform all necessary tests on its finished products to ensure that all conditions, specifications, legal and regulatory requirements are met and that its finished products manufactured with this Product are suitable for the application intended, including, but not limited to, medical, pharmaceutical, food packaging, food contact, as applicable.

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Webpage: braskem.com

