Product Comparison

Technical Data

Product Description	
Braskem PP C7069-100NA	BRASKEM C7069-100NA Polypropylene Resin has been developed for high speed injection molding in various applications. BRASKEM C7069-100NA Polypropylene Resin is a nucleated impact copolymer combining very high flow with an excellent balance of mechanical properties and organoleptic properties. It has been designed for short cycle times and excellent antistatic performance. Applications: • Thin wall packaging (margarine tubs, dairy product pots, ice cream containers/lids) • Thin wall consumer goods e.g. Flower pots, Houseware, food boxes • Caps & closures Process: • High speed injection molding
Braskem PP C7100-50NA	Freezer Temperature Impact Resistance, High Flow Processing Ease, Easy Mold Release, Fast Cycle Time, Good Organoleptic Properties, Contains Nucleating and Antistatic Additives Applications Suggested Uses Include Thin-Wall Injection Molding Processes
Braskem PP C7082-30NA	BRASKEM C7082-30NA Polypropylene Resin is a high performance impact copolymer for injection moulding applications requiring excellent mechanical performance. The grade provides an excellent combination of mechanical performance (high stiffness and superior impact resistance) with efficient processability. The grade contains a nucleating and antistatic agent. Applications: • Thin wall packaging e.g. containers, buckets, pails. Lids, material handling • Thin wall Consumer goods e.g. housewares • Caps and closures Industrial containers Process: • Injection moulding
Braskem PP C711-70RNA	BRASKEM C711-70RNA Polypropylene Resin is a high performance impact copolymer especially for high speed thin wall injection moulding applications. BRASKEM C711-70RNA Polypropylene is a very high melt flow rate impact copolymer featuring excellent impact strength, even at low temperatures. Additional features of the grade are short cycle times, low shrinkage and warpage as well as good part dimensional stability. BRASKEM C711-70RNA Polypropylene Resin contains a very efficient antistatic package. Applications: • Thin wall packaging (margarine tubs, dairy product pots, ice cream containers/lids) • Thin wall consumer goods e.g. Flower pots, Houseware, food boxes • Caps & closures Process: • High speed thin wall injection moulding.

Product Comparison

Braskem PP C702-20NA	High impact performance, contains a nucleating and antistatic additive Applications Suggested uses include injection molding applications requiring high impact resistance and good stiffness

General	Braskem PP C7069-100NA	Braskem PP C7100-50NA	Braskem PP C7082-30NA	Braskem PP C711-70RNA	Braskem PP C702-20NA
Manufacturer / Supplier	• Braskem Europe GmbH	• Braskem America Inc.	• Braskem Europe GmbH	• Braskem Europe GmbH	• Braskem America Inc.
Generic Symbol	• PP Impact Copolymer	• PP Impact Copolymer	• PP Impact Copolymer	• PP Impact Copolymer	• PP Impact Copolymer
Availability	• Europe	• North America	• Europe	• Europe	• North America
Additive	• Nucleating Agent	• Antistatic • Nucleating Agent	• Antistatic • Nucleating Agent	• Antistatic	• Antistatic • Nucleating Agent
Features	• Antistatic • Fast Molding Cycle • Good Organoleptic Properties • High Flow • Impact Copolymer • Nucleated	• Antistatic • Fast Molding Cycle • Good Mold Release • Good Organoleptic Properties • High Flow • Low Temperature Impact Resistance • Nucleated	• Antistatic • Good Processability • High Impact Resistance • High Stiffness • Impact Copolymer • Nucleated	• Antistatic • Fast Molding Cycle • Good Dimensional Stability • Good Impact Resistance • High Flow • Impact Copolymer • Low Shrinkage • Low Temperature Impact Resistance • Low Warpage	• Antistatic • Good Stiffness • High Impact Resistance • Nucleated
Uses	• Caps • Closures • Household Goods • Packaging • Thin-walled Packaging • Thin-walled Parts	• Thin-walled Parts	• Caps • Closures • Containers • Household Goods • Industrial Containers • Lids • Pails • Thin-walled Packaging • Thin-walled Parts	• Thin-walled Parts	--
Agency Ratings	• EU No 10/2011 • FDA FCN 843	• FDA 21 CFR 177.1520	• EU 10/2011 • FDA FCN 843	• EU No 10/2011 • FDA FCN 843	• FDA 21 CFR 177.1520
Processing Method	• Injection Molding	• Injection Molding	• Injection Molding	• Injection Molding	• Injection Molding

Product Comparison

Physical	Braskem PP C7069-100NA	Braskem PP C7100-50NA	Braskem PP C7082-30NA	Braskem PP C711-70RNA	Braskem PP C702-20NA	Unit	Test Method
Density / Specific Gravity							
--	0.900	--	--	--	--	g/cm³	ASTM D792
--	--	--	0.900	0.900	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)							
230°C/2.16 kg	100	50	--	--	18	g/10 min	ASTM D1238
230°C/2.16 kg	--	--	30	70	--	g/10 min	ISO 1133
Mechanical	**Braskem PP C7069-100NA**	**Braskem PP C7100-50NA**	**Braskem PP C7082-30NA**	**Braskem PP C711-70RNA**	**Braskem PP C702-20NA**	**Unit**	**Test Method**
Tensile Strength							
Yield [4]	--	22.1	--	--	22.8	MPa	ASTM D638
Yield, Injection Molded	--	--	--	24.0	--	MPa	ISO 527-2
Tensile Elongation							
Yield [4]	--	5.0	--	--	4.5	%	ASTM D638
Yield, Injection Molded	--	--	--	7.0	--	%	ISO 527-2
Flexural Modulus							
1% Secant [5]	--	951	--	--	1210	MPa	ASTM D790A
--	--	--	1300	--	--	MPa	ISO 178
Injection Molded	1580	--	--	1250	--	MPa	ISO 178
Impact	**Braskem PP C7069-100NA**	**Braskem PP C7100-50NA**	**Braskem PP C7082-30NA**	**Braskem PP C711-70RNA**	**Braskem PP C702-20NA**	**Unit**	**Test Method**
Charpy Notched Impact Strength							
-20°C	--	--	5.0	--	--	kJ/m²	ISO 179/eA
-20°C, Injection Molded	--	--	--	4.0	--	kJ/m²	ISO 179/1eA
0°C	--	--	6.0	--	--	kJ/m²	ISO 179/eA
0°C, Injection Molded	--	--	--	5.5	--	kJ/m²	ISO 179/1eA
23°C	--	--	8.5	--	--	kJ/m²	ISO 179/eA
23°C, Injection Molded	4.0	--	--	8.0	--	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	--	120	--	--	190	J/m	ASTM D256A
Thermal	**Braskem PP C7069-100NA**	**Braskem PP C7100-50NA**	**Braskem PP C7082-30NA**	**Braskem PP C711-70RNA**	**Braskem PP C702-20NA**	**Unit**	**Test Method**
Heat Deflection Temperature							ISO 75-2/B
0.45 MPa, Unannealed [6]	--	--	--	95.0	--	°C	
0.45 MPa, Unannealed	105	--	98.0	--	--	°C	
Vicat Softening Temperature							ISO 306/A
-- [6]	--	--	--	150	--	°C	
--	152	--	--	--	--	°C	