

ISPLEN® PB 176 N4M

Polypropylene Impact Copolymer

REPSOL

Message:

ISPLEN® PB 176 N4M is a heterophasic copolymer with a superior molecular architecture that combines the impact strength of a conventional copolymer with the high stiffness level of a homopolymer as well as an excellent processability. At the same time, it exhibits a higher crystallisation temperature and a low shrinkage tendency.

ISPLEN® PB 176 N4M clearly outperforms standard products and allows the same application performance with a potential cost reduction for finished articles due to:

Potential reduction of wall thickness.

Shorter cooling time: higher mould opening temperatures.

Can replace mineral filled or blends among polypropylenes.

TYPICAL APPLICATIONS

ISPLEN® PB 176 N4M performance profile expands the final application to broad and diverse goods: packaging (cylindrical containers for paints, leisure chemicals, pool maintenance products), food rounded containers, baskets, garden furniture, flowerpots, toys, trays and technical items for domestic appliances or automotive industries.

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Stiffness		
	Low Shrinkage		
Uses	Appliance Components		
	Automotive Applications		
	Containers		
	Food Containers		
	Furniture		
	Toys		
Agency Ratings	EU Food Contact, Unspecified Rating		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	93.0	°C	ISO 75-2/B

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 250	°C

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