

# ISPLEN® PB 186 N4M

Polypropylene Impact Copolymer

REPSOL

## Message:

Isplen® PB 186 N4M is a heterophasic polypropylene copolymer with a superior molecular architecture that combines the impact strength of a conventional block copolymer with the stiffness level of a homopolymer and excellent processability. At the same time, exhibits a higher crystallisation temperature due to controlled chain packaging.

Isplen® PB 186 N4M provides excellent flow properties, very high stiffness and good impact strength.

Outperforms traditional block copolymers with a potential source of cost reduction for finished articles:

It does a potential reduction of wall thickness.

Reduce cooling times: higher mould opening temperatures and shorter cycles.

Can replace mineral filled or blends among polypropylenes.

TYPICAL APPLICATIONS

Isplen® PB 186 N4M is highly suitable to fill moulds with long flow lengths or thin walled articles that demands good dimensional stability together with good impact requirements: packaging, food containers, baskets, garden furniture, leisure goods, flowerpots, toys, storage boxes, trays for fast food, technical items for domestic appliances, automotive, electronic and hardware industries...

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	High Stiffness		
Uses	Appliance Components		
	Automotive Applications		
	Electrical/Electronic Applications		
	Food Containers		
	Furniture		
	Packaging		
	Thin-walled Parts		
	Toys		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA Food Contact, Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method


Rockwell Hardness (R-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (Injection Molded)	1650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Injection Molded)	4.0	kJ/m <sup>2</sup>	ISO 180
Unnotched Izod Impact Strength (-20°C, Injection Molded)	38	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	151	°C	ISO 306/A

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