

# ISPLEN® PB 180 A4M

Polypropylene Impact Copolymer  
REPSOL

Message:

ISPLEN® PB 180 A4M is a high fluidity heterophasic copolymer characterised by its excellent flow properties and by its good balance of mechanical properties: impact strength and stiffness. It is particularly suitable for injection moulding applications of thin walled articles. The material also shows very low tendency to warp and it is used in goods where dimensional stability is important.

ISPLEN® PB 180 A4M is formulated with a specific additive package to permit the dispersion of static charges accumulated on the article surface avoiding anti-aesthetic dust deposits during storage or exhibition. Additive package also facilitates material processing, reduces internal stresses and makes it easier to extract the pieces from the mould.

TYPICAL APPLICATIONS

The specific characteristics of ISPLEN® PB 180 A4M are particularly suitable for applications requiring excellent processability and good aesthetic appearance:

Domestic and leisure furniture.

Thin-walled boxes and round storage containers for exhibiting food products or consumer goods.

Industrial components: toys, sports, household appliances, storage organizers...

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

General Information			
Additive	Antistatic		
Features	Antistatic		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Flow		
	Low Warpage		
Uses	Appliance Components		
	Food Packaging		
	Furniture		
	Industrial Applications		
	Sporting Goods		
	Thin-walled Containers		
	Thin-walled Parts		
	Toys		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	88.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 250	°C	

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#### Recommended distributors for this material

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