

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PB 180 A4M

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.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (230 °C; 2.16 kg)	20	g/10 min	ISO 1133
Density	905	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	1250	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	6	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	88	°C	ISO 75
Others			
Shore Hardness	62	D Scale	ISO 868

ISPLEN® PB 180 A4M complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ISPLEN® PB 180 A4M should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

November 2013

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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