

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PB 182 G2M

ISPLEN® PB 182 G2M is a high fluidity heterophasic copolymer characterised by its excellent flow properties and good balance of mechanical properties, very high impact strength, even at low temperatures and high stiffness. It is particularly intended for injection moulding applications used in the manufacture of thin wall articles. Also, the material has a very low tendency to warp and it is used in goods where dimensional stability is important.

TYPICAL APPLICATIONS

The particular characteristics of ISPLEN® PB 182 G2M make it suitable for applications in which very high impact strength at high fluidity is required as well as good processability:

- Domestic and leisure furniture.
- Square boxes and round storage containers for consumer appliances.
- Trays and containers for cold storage of foodstuffs: ice creams, fresh vegetables, fruit processed...
- Industrial components: toys, sports, leisure, automotive, storage organizers, packaging...

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	1000	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	16	kJ/m ²	ISO 179
Charpy Impact Strength Notched -20 °C	7	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	77	°C	ISO 75
Others			
Shore Hardness	60	D Scale	ISO 868

ISPLEN® PB 182 G2M 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 182 G2M 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.

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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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