

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PB 171 H1M

ISPLEN® PB 171 H1M is a medium-high fluidity heterophasic copolymer with specific molecular structure intended for injection moulding applications that combines very high impact strength, even at low temperatures and excellent processability.

Other technical advantages of ISPLEN® PB171H1M are:

- Highly suitable for manufacturing of articles with very high impact strength at low temperatures.
- Low viscosity that enables to fill moulds with complex geometry, big articles or long flow paths.
- Low warpage and high dimensional stability.

TYPICAL APPLICATIONS

Particular characteristics of ISPLEN® PB171H1M performs a grade widely used for technical components, transport systems and storage equipment: crates, suitcase shells, professional storage solutions, automotive components, battery boxes, buckets, waste and disposal management systems, industrial components (sports, leisure, electrical...)

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)	12	g/10 min	ISO 1133
Density	905	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	1150	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	14.5	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	80	°C	ISO 75
Others			
Shore Hardness	62	D Scale	ISO 868

ISPLEN® PB 171 H1M 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 171 H1M 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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