

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PB 141 U5M

ISPLEN® PB 141 U5M is a low-medium fluidity heterophasic copolymer with specific structural modifications intended for injection moulding applications that combines very high impact strength, even at low temperatures, and high stiffness and good processability. It is UV stabilized to be used in exterior applications.

Among other technical advantages ISPLEN® PB 141 U5M offers:

- Highly suitable for manufacturing of articles with high strength at very low temperatures.
- Easy flow enables to fill moulds with complex geometry or big articles that is not common in a grade with this melt flow rate.
- Low warpage and high dimensional stability.

TYPICAL APPLICATIONS

ISPLEN® PB 141 U5M characteristics performs a grade particularly designed for technical components and containers exposed to heavy loads: heavy duty crates, suitcase shells, professional organizers, automotive components, extra high impact battery boxes and industrial components (sports, leisure, 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)	3.5	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	15	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	82	°C	ISO 75
Others			
Shore Hardness	62	D Scale	ISO 868

ISPLEN® PB 141 U5M 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 141 U5M 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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