

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PR 290 P1M

ISPLEN® PR 290 P1M is a polypropylene random copolymer with a very high fluidity intended for injection moulding of transparent articles. It is characterised by good flow properties that facilitates an easy mould filling and very short cycle times. Due to the specific crystalline structure, at the same time, exhibits high toughness at ambient temperatures and low warpage.

It contains an additive package that reduces anaesthetic dust patterns during storage and, besides, reduces internal stresses and facilitates article release from the mould.

TYPICAL APPLICATIONS

ISPLEN® PR 290 P1M is widely applied for the high speed production of thin-walled articles where dimensional stability is important and excellent clarity are required:

- Houseware containers (square and cylindrical shape).
- Transparent boxes and crates for domestic and professional storage.
- Thin wall containers for foodstuffs: yoghurt, dairy products, fast food, candies, sauces...
- Technical appliances: furniture, toys, electrical equipment, sports, leisure...

Recommended melt temperature range from 210 to 250°C. Processing conditions should be optimised for each production line. Physical blends with other materials might cause incompatibilities.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (230 °C; 2.16 kg)	35	g/10 min	ISO 1133
Density	905	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	1050	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	6	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	70	°C	ISO 75

ISPLEN® PR 290 P1M 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® PR 290 P1M 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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