

Isplen® Polypropylene

Chemicals
Technical data sheet


ISPLEN® PR 280 P1M

ISPLEN® PR 280 P1M is a polypropylene random copolymer with high fluidity intended for injection moulding of highly transparent articles. It is characterised by a specific molecular structure that combines good flow properties, good impact resistance at ambient temperatures and low warpage.

ISPLEN® PR 280 P1M contains an additive package that permits the dispersion of static charges accumulated on the surface, preventing anti-aesthetic dust patterns during storage or exhibition and, besides, reducing internal stresses and making it easier to extract the pieces from the mould.

TYPICAL APPLICATIONS

ISPLEN® PR 280 P1M is particularly suitable for applications requiring high transparency, good processability, low tendency to warp and moderate impact resistance:

- Houseware containers (square and cylindrical shape).
- Transparent boxes and crates for domestic and professional storage.
- Caps, lids and closures (screw caps, with living hinge, smooth touch for cosmetic...)
- Aesthetic appliances: furniture, toys, electrical equipment, sports, leisure, cups...

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)	20	g/10 min	ISO 1133
Density	905	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	1100	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	6	kJ/m ²	ISO 179
Thermal			
HDT 0.45MPa	69	°C	ISO 75

ISPLEN® PR 280 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 280 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.

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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