

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PR 290 X9M

ISPLEN® PR 290 X9M is a polypropylene random copolymer with a very high fluidity intended for injection moulding. In addition to good transparency, it also shows superior impact properties compared to standard random copolymers, especially at low temperatures. At 0°C, impact strength is similar to heterophasic copolymers of the same fluidity. Due to its excellent processability, it is particularly suitable for injection moulding applications used in the manufacture of very thin walled articles.

It includes a package of additives that allows dispersion of static charges accumulated on the surface, preventing the formation of dust deposits and making it easier to extract the pieces from the mould.

TYPICAL APPLICATIONS

ISPLEN® PR 290 X9M has been specifically designed for the manufacture of very thin-walled articles with high mechanical properties at low temperatures, high dimensional stability and excellent clarity:

- Home containers for cold storage ('from the freezer to the microwave').
- Boxes, crates, pails and containers for home and professional storage.
- Very thin-walled containers for chilled storage: ice cream, dairy products, vegetables...

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)	25	g/10 min	ISO 1133
Density	905	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	900	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	9	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	60	°C	ISO 75

ISPLEN® PR 290 X9M 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 X9M 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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