TECHNICAL DATA SHEET

Repsol Isplen® PR290X9M

REPSOL ISPLEN PR290X9M is a phthalate free polypropylene random copolymer with a 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 0ºC, 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 the 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.

Applications:

REPSOL ISPLEN PR290X9M 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 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 230 to 250ºC. Processing conditions should be optimised for each production line. Physical blend with other materials may cause incompatibilities.

Properties:

Properties	Value	Unit	Test Method
General			
Melt Flow Rate (230ºC/2.16 kg)	28	g/10 min	ISO 1133
Density at 23ºC	905	kg/m^3	ISO 1183
Mechanical			
Flexural Modulus of Elasticity	900	MPa	ISO 178
Charpy Impact Strength (23 ºC, notched)	9	kJ/m^2	ISO 179
Charpy Impact Strength (0 ºC, notched)	3.5	kJ/m^2	ISO 179
Thermal			
HDT (0.45 MPa)	60	ºC	ISO 75

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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Storage:

REPSOL ISPLEN PR290X9M should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and properties of the transformed product.

Disclaimer:

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

Related documents:

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet.
- Statement on compliance with food contact regulations.

Recommended consumption period: 12 months from the date of delivery to the customer.

July 2026

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