

# ISPLEN® PR 290 X9M

Polypropylene Random Copolymer  
REPSOL

PROSPECTOR®

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## Technical Data

### Product Description

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.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Injection Molding (English)</a> • <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">REPSOL</a>
Availability	• Europe • North America
Additive	• Antistatic
Features	• Antistatic • Good Impact Resistance • High Flow • Food Contact Acceptable • Good Processability • Low Temperature Impact Resistance • Good Dimensional Stability • High Clarity
Uses	• Containers • Food Containers • Thin-walled Containers • Crates • Pails • Thin-walled Parts
Agency Ratings	• EU Food Contact, Unspecified Rating
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.905 g/cm <sup>3</sup>	0.905 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25 g/10 min	25 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Flexural Modulus	131000 psi	900 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.3 ft·lb/in <sup>2</sup>	9.0 kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	140 °F	60.0 °C	ISO 75-2/B
Injection	Nominal Value (English)	Nominal Value (SI)	
Processing (Melt) Temp	410 to 482 °F	210 to 250 °C	

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

