ISPLEN® PR 290 X9M

Polypropylene Random Copolymer

REPSOL

Message:

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 Information			
Additive	Antistatic		
Features	Antistatic Food Contact Acceptable Good Dimensional Stability Good Impact Resistance Good Processability High Clarity High Flow Low Temperature Impact Resistance		
Uses	Containers Crates Food Containers Pails Thin-walled Containers Thin-walled Parts		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	900	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m^2	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	210 to 250	°C	

Recommended distributors for this material

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