

ISPLEN® PR 299 C1M

Polypropylene Random Copolymer
REPSOL

Message:

ISPLEN® PR 299 C1M is a random copolymer with a very high fluidity intended for injection moulding of transparent thin walled articles. It is characterised by good flow properties that facilitates an easy mould filling and very short cycle times. Due to the specific crystalline structure it exhibits a high toughness at ambient temperatures and high dimensional stability.

TYPICAL APPLICATIONS

ISPLEN® PR 299 C1M is designed for the high speed production of thin-walled articles such as:
Houseware containers (square and cylindrical shape).
Transparent boxes and crates for domestic and professional storage.
Thin wall containers for foodstuffs: yoghurt, dairy products, fast food, candies, sauces...
Technical appliances: furniture, toys, kitchen equipment...
Recommended melt temperature range from 210 to 250°C. Processing conditions should be optimised for each production line.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Moldability		
	High Flow		
	Ultra High Toughness		
Uses	Appliances		
	Containers		
	Crates		
	Food Containers		
	Furniture		
	Household Goods		
	Thin-walled Containers		
	Thin-walled Parts		
Toys			
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	70	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	70.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 250	°C	

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