

ISPLEN® PR 290 P1M

Polypropylene Random Copolymer
REPSOL

Message:

ISPLEN® PR 290 P1M is a polypropylene random copolymer with a very high fluidity intended for injection moulding of transparent 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, at the same time, exhibits high toughness at ambient temperatures and low warpage. It contains an additive package that reduces anaesthetic dust patterns during storage and, besides, reduces internal stresses and facilitates article release from the mould.

TYPICAL APPLICATIONS

ISPLEN® PR 290 P1M is widely applied for the high speed production of thin-walled articles where dimensional stability is important and excellent clarity are required:

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, electrical equipment, sports, leisure...

Recommended melt temperature range from 210 to 250°C. Processing conditions should be optimised for each production line.

| General Information | | | |
|---------------------|-------------------------------------|------|-------------|
| Additive | Antistatic | | |
| Features | Crystalline | | |
| | Fast Molding Cycle | | |
| | Food Contact Acceptable | | |
| | Good Dimensional Stability | | |
| | Good Flow | | |
| | Good Moldability | | |
| | High Clarity | | |
| | High Flow | | |
| | Low Warpage | | |
| | Ultra High Toughness | | |
| Uses | Containers | | |
| | Crates | | |
| | Electrical/Electronic Applications | | |
| | Food Containers | | |
| | Furniture | | |
| | Household Goods | | |
| | Sporting Goods | | |
| | Thin-walled Parts | | |
| Agency Ratings | EU Food Contact, Unspecified Rating | | |
| | 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) | 35 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus | 1050 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 6.0 | 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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