

ISPLEN® PR 280 P1M

Polypropylene Random Copolymer
REPSOL

Message:

ISPLEN® PR 280 P1M is a polypropylene random copolymer with high fluidity intended for injection moulding of highly transparent articles. It is characterised by a specific molecular structure that combines good flow properties, good impact resistance at ambient temperatures and low warpage. ISPLEN® PR 280 P1M contains an additive package that permits the dispersion of static charges accumulated on the surface, preventing anti-aesthetic dust patterns during storage or exhibition and, besides, reducing internal stresses and making it easier to extract the pieces from the mould.

TYPICAL APPLICATIONS

ISPLEN® PR 280 P1M is particularly suitable for applications requiring high transparency, good processability, low tendency to warp and moderate impact resistance:
Houseware containers (square and cylindrical shape).
Transparent boxes and crates for domestic and professional storage.
Caps, lids and closures (screw caps, with living hinge, smooth touch for cosmetic...)
Aesthetic appliances: furniture, toys, electrical equipment, sports, leisure, cups...
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 Impact Resistance
	Good Processability
	High Clarity
	High Flow
	Low Warpage
	Medium Impact Resistance
Uses	Appliances
	Caps
	Closures
	Containers
	Crates
	Cups
	Electrical/Electronic Applications
	Furniture
	Household Goods
	Lids
	Living Hinges
	Sporting Goods
	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)	20	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1100	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)	69.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	210 to 250	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

