

Technical data sheet

Chemicals



PP REPSOL ISPLEN PB199A3M

REPSOL ISPLEN PB199A3M is a very high fluidity heterophasic copolymer characterised by its excellent flow properties and good balance of mechanical properties, impact strength and high stiffness. It is particularly suitable for injection moulding applications used in the manufacture of very thin walled articles.

It provides a specific molecular structure that allows the articles made with PB 199 A3M exhibit a low tendency to warp, ultra light flow and high dimensional stability. Antistatic additive package also facilitates material processing, reduces internal stresses and makes the articles extraction from the mould easier reaching high cadence of production.

Applications

The specific characteristics of REPSOL ISPLEN PB199A3M are particularly suitable for applications requiring good toughness, excellent processability and dimensional stability. It is widely used in very thin-walled articles as:

- Containers for exhibiting food products: ice creams, dairy products...
- Trays, boxes, cups and rounded containers for processed food.
- Flowerpots, buckets, waste containers, lids, caps, cosmetic flasks...
- Video boxes. Cases for DVD, CD-R, CD-RW and optical storage systems.

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	MÉTHOD
General			
Melt flow rate (230°C/ 2,16 kg)	55	g/10 min	ISO 1133
Density at 23°C	905	kg/m ³	ISO 1183
Mechanical			
Flexural modulus of elasticity	1.200	MPa	ISO 178
Charpy impact strength (23°C,notched)	5	kJ/m ²	ISO 179
Charpy impact strength (-20°C,notched)	3	kJ/m ²	ISO 179
Thermal			
HDT 0,45 MPa	94	°C	ISO 75
Others			
Shore Hardness	65	-	ISO 868

REPSOL ISPLEN PB199A3M complies with the European Directives regarding materials intended for contact with foodstuffs. The product mentioned herein is not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such

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applications. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

Storage

REPSOL ISPLEN PB199A3M should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and properties of the transformed product.

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