TECHNICAL DATA SHEET

Repsol Isplen® PB199A3M

REPSOL ISPLEN PB199A3M is a phthalate free very high fluidity heterophasic copolymer. It is 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 PB199A3M to 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 250ºC. Processing conditions should be optimised for each production line.

Properties:

Properties	Value	Unit	Test Method
General			
Melt Flow Rate (230ºC/2.16 kg)	55	g/10 min	ISO 1133
Density at 23ºC	905	kg/m^3	ISO 1183
Mechanical			
Flexural Modulus of Elasticity	1200	MPa	ISO 178
Charpy Impact Strength (23ºC, notched)	8.5	kJ/m^2	ISO 179
Charpy Impact Strength (-20ºC, notched)	5	kJ/m^2	ISO 179
Thermal			
HDT 0.45 MPa	85	ºC	ISO 75
Others			
Shore Hardness	65	-	ISO 868

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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Storage:

REPSOL ISPLEN PB199A3M should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60ºC 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.

Disclaimer:

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

Related documents:

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet.
- Statement on compliance with food contact regulations.

Recommended consumption period: 12 months from the date of delivery to the customer.

June 2026

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