TECHNICAL DATA SHEET

Repsol Isplen® PB171H1M

REPSOL ISPLEN PB171H1M is a phthalate free medium-high fluidity heterophasic copolymer with specific molecular structure. It is intended for injection moulding applications that combine very high impact strength, even at low temperatures, and excellent processability.

Other technical advantages of this grade are:

- Highly suitable for manufacturing of articles with very high impact strength at low temperatures.
- Low viscosity that enables filling moulds with complex geometry, large articles or long flow paths.
- Low warpage and high dimensional stability.

Applications:

The particular characteristics of REPSOL ISPLEN PB171H1M make it a grade widely used for technical components, transport systems and storage equipment: crates, suitcase shells, professional storage solutions, automotive components, battery boxes, buckets, waste and disposal management systems, industrial components (sports, leisure, electrical...).

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)	12	g/10 min	ISO 1133
Density at 23ºC	905	kg/m^3	ISO 1183
Mechanical			
Flexural Modulus of Elasticity	1100	MPa	ISO 178
Charpy Impact Strength (23ºC, notched)	12.5	kJ/m^2	ISO 179
Charpy Impact Strength (-20ºC, notched)	6	kJ/m^2	ISO 179
Thermal			
HDT 0.45 MPa	80	ºC	ISO 75
Others			
Shore Hardness	62	-	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.

Technical Service & Development:
Tel. +34 91 753 86 00
ATD_Polimeros@repsol.com

Headquarters
Méndez Álvaro, 44
28045 Madrid
España
www.repsol.com

Customer Care
CustomerCare.materials@repsol.com

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Storage:

REPSOL ISPLEN PB171H1M 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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