TECHNICAL DATA SHEET

Repsol Isplen® PB140G2M

REPSOL ISPLEN PB140G2M is a phthalate free heterophasic copolymer with medium-low fluidity. It is designed for injection moulding applications where very high impact properties, even at low temperatures, are necessary combined with good processability. Among other technical advantages, it offers:

- Production of items exposed to heavy loads that need high toughness.
- Good flow properties enable to fill complex moulds.
- It can be easily coloured during the extrusion process using the right pigments, preferably in the form of concentrates with a higher melt flow rate than the base polymer.

Applications:

Due to its excellent balance of properties some of the major applications of REPSOL ISPLEN PB140G2M are consumer goods as industrial handling or packaging containers, housewares and indoor furniture, suitcases and boxes with living hinge (i.e. tool boxes). Also is suitable for technical components: toys, sports equipment, leisure goods, automotive, pallets, crates and pails, use in cable compounds, general purpose pipe.

Recommended melt temperature range from 190 to 250ºC. Processing conditions should be optimized for each production line.

Properties:

Properties	Value	Unit	Test Method
General			
Melt Flow Rate (230ºC/2.16 kg)	3.5	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)	12	kJ/m^2	ISO 179
Thermal			
HDT 0.45 MPa	80	ºC	ISO 75
Others			
Shore Hardness	60	-	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 PB140G2M 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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