

REPSOL ISPLEN PB151U5M

REPSOL ISPLEN PB151U5M is a phthalate free low-medium fluidity heterophasic copolymer with specific structural modifications. It is intended for injection moulding applications that combines very high impact strength, even at low temperatures, and high stiffness and good processability. It is UV stabilized to be used in exterior applications.

Among other technical advantages REPSOL ISPLEN PB151U5M offers:

- Highly suitable for manufacturing of articles with outstanding strength and impact resistance balance even at very low temperatures
- Easy flow enables to fill moulds with complex geometry or large articles that is not common in a grade with this melt flow rate.
- Low warpage and high dimensional stability.

Applications

REPSOL ISPLEN PB151U5M characteristics performs a grade particularly designed for technical components and containers exposed to heavy loads: heavy duty crates, suitcase shells, professional organizers, automotive components, extra high impact battery boxes and industrial components (sports, leisure, packaging...)

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

PROPERTIES	VALUE	UNIT	TEST METHOD
GENERAL			
Melt flow rate (230°C/ 2,16 kg)	7	g/10 min	ISO 1133
Density at 23°C	905	kg/m ³	ISO 1183
MECHANICAL			
Flexural modulus of elasticity	1.150	MPa	ISO 178
Charpy impact strength (23°C, notched)	>40	kJ/m ²	ISO 179
Charpy impact strength (-20°C, notched)	8	kJ/m ²	ISO 179

Storage

REPSOL ISPLEN PB151U5M 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.

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.

[1/2]

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 raw material reception

March 2022

[2/2]