

REPSOL ISPLEN PB131N5E

REPSOL ISPLEN PB131N5E is a nucleated phthalate free heterophasic copolymer with medium-flow fluidity designed for extrusion applications.

It has good processability and high mechanical properties especially high impact strength, even at low temperatures.

Due to its melt flow properties, high impact strength and excellent ESCR, it is suitable for profiles and pipes requiring excellent mechanical properties.

Applications

In extrusion and blow-moulding processes, such as:

- Films with excellent tear resistance and impact strength for special applications
- Sheets and profiles
- Pipes

Recommended melt temperatures range between 190 and 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)	1.3	g/10 min	ISO 1133
Density at 23°C	905	kg/m ³	ISO 1183
MECHANICAL			
Flexural Modulus	1300	MPa	ISO 178
Charpy impact strength (23°C, notched)	>60	kJ/m ²	ISO 179
Charpy impact strength (-20°C, notched)	7	kJ/m ²	ISO 179
THERMAL			
Vicat softening temperature A120 (10 N)	150	°C	ISO 306
HDT 0.45MPa	83	°C	ISO 75
OTHERS			
Shore Hardness	60	-	ISO 868

Storage

REPSOL ISPLEN PB131N5E 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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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 raw material reception

January 2022

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