TECHNICAL DATA SHEET

Repsol Isplen® PP086U6E

The grade REPSOL ISPLEN PP086U6E is a phthalate free high melt flow rate polypropylene homopolymer with narrow molecular weight distribution which provides optimum processing in fiber lines of high speed (BCF/CF and spunbond). It includes a specific formulation resistant to "gas fading" coloration, suitable for protecting the polymer during extrusion process and final use. Moreover, it contains additives to increase the resistance to UV radiation.

Applications:

- Indicated for the extrusion of staple fibre and BCF/CF in lines of high speed.
- Specially recommended for technical and hygienic nonwovens in spunbond lines.

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)	25	g/10 min	ISO 1133
Density at 23ºC	905	kg/m^3	ISO 1183
Mechanical			
Flexural Modulus	1600	MPa	ISO 178
Tensile Strength at Yield	36	MPa	ISO 527-2
Thermal			
VICAT (9.8 N)	153	ºC	ISO 306
Heat Deflection Temperature (0.45 MPa)	90	ºC	ISO 75

Storage:

REPSOL ISPLEN PP086U6E 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.

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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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.

May 2026

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