TECHNICAL DATA SHEET

Repsol Isplen® PP031G1E

The grade REPSOL ISPLEN PP031G1E is a phthalate free medium-low melt flow rate polypropylene homopolymer. It offers an optimum balance between mechanical and processing properties for production of monofilaments and tapes with high tensile strength at break. It is formulated with an additive package suitable for protecting the polymer during extrusion process and final use.

Applications:

- High tenacity monofilaments and tapes for ropes and twines
- Low fibrillation tapes for textil
- Strap
- Sheet extrusion and Thermoforming

Recommended melt temperature range between 190 and 250°C. Processing conditions should be optimized for each production line.

Properties:

Properties	Value	Unit	Test Method
General			
Melt Flow Rate (230°C, 2.16 kg)	2.2	g/10 min	ISO 1133
Density at 23°C	905	kg/m^3	ISO 1183
Mechanical			
Flexural Modulus	1600	MPa	ISO 178
Tensile Strength at Yield	35	MPa	ISO 527-2
Thermal			
Vicat softening temperature A 120 (10 N)	155	°C	ISO 306
Heat Deflection Temperature (0.45 MPa)	95	°C	ISO 75

Storage:

REPSOL ISPLEN PP031G1E 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.

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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