TECHNICAL DATA SHEET

Repsol Isplen® PP040G1E

The grade REPSOL ISPLEN PP040G1E is a phthalate free medium melt flow rate homopolymer offering optimal processability and mechanical properties for sheet extrusion, raffia and monofilament fibers. The grade includes thermal stabilizers to protect the polymer during processing and handling.

Applications:

- Sheet and thermoforming
- Raffia
- Monofilament
- Weaving tapes

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)	3	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 (10N)	155	°C	ISO 306
HDT (0.45 MPa)	95	°C	ISO 75

Storage:

REPSOL ISPLEN PP040G1E 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.

Technical Service & Development:
Tel. +34 91 753 86 00
ATD_Polimeros@repsol.com

Headquarters
Méndez Álvaro, 44
28045 Madrid
España
www.repsol.com

Customer Care
CustomerCare.materials@repsol.com

Manufacturer website: https://www.repsol.com/en/products-and-services/chemicals/

TECHNICAL DATA SHEET

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

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.

Technical Service & Development:
Tel. +34 91 753 86 00
ATD_Polimeros@repsol.com

Headquarters
Méndez Álvaro, 44
28045 Madrid
España
www.repsol.com

Customer Care
CustomerCare.materials@repsol.com