TECHNICAL DATA SHEET

Repsol Isplen® PR230C1E

REPSOL ISPLEN PR230C1E is a medium-low melt flow rate propylene-ethylene random copolymer with good transparency, high gloss and excellent surface finish. It is formulated with additives according to the end use of the item in order to reinforce the thermal stability.

REPSOL ISPLEN PR230C1E can be easily coloured during the extrusion process using the right pigments, preferably in the form of concentrates with a higher melt flow rate than that of the base polymer.

Applications:

- Blow-moulding extrusion. Specially recommended for detergents and cosmetics due to its high ESCR
- Sheet Extrusion
- Thermoforming

Recommended melt temperature range from 185 to 215ºC. Processing conditions should be optimized for each production line.

Properties:

Properties	Value*	Unit	Test Method
General			
Melt Flow Rate (230ºC, 2.16 kg)	1.6	g/10 min	ISO 1133
Density at 23ºC	902	kg/m^3	ISO 1183
Mechanical			
Tensile Strength at Yield	27	MPa	ISO 527-2
Elongation at yield	12		ISO 527-2
Flexural modulus of elasticity	800		ISO 178
Izod Impact Strength (23 ºC, notched)	22	MPa	ISO 180/1A
Other			
Melting Point	143	ºC	ISO 11357-3
Vicat Softening Temperature (10 N)	130	ºC	ISO 306
HDT 0.45 MPa	70	ºC	ISO 75

* Typical values - Not to be considered as specification

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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Storage:

REPSOL ISPLEN PR230C1E 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.

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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