

REPSOL ISPLEN PR230C1E

REPSOL ISPLEN PR230C1E is a phthalate free propylene-ethylene random copolymer with medium-low melt flow rate. It offers good transparency, high gloss and excellent surface finish. It is formulated with additives to reinforce the thermal stability during product processing and end use.

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 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)	1.6	g/10 min	ISO 1133
Density at 23°C	902	kg/m ³	ISO 1183
MECHANICAL			
Flexural Modulus	850	MPa	ISO 178
Tensile strength at yield	27	MPa	ISO 527-2
Elongation at yield	12	%	ISO 527-2
Charpy impact strength (23°C, notched)	45	kJ/m ²	ISO 179
THERMAL			
Melting Temperature (DSC)	143	°C	ISO 11357-3
Vicat softening temperature A 120 (10N)	130	°C	ISO 306
Heat Deflection Temperature 0.45 MPa	70	°C	ISO 75
OPTICAL			
Haze (1 mm)	14	%	ASTM D 1003

Storage

REPSOL ISPLEN PR230C1E 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

February 2022

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