TECHNICAL DATA SHEET

Repsol ISPLEN PR210X6E

REPSOL ISPLEN PR210X6E is a random ethylene-propylene copolymer with a high molecular weight. It contains a specific formulation for high thermal stability and water extraction purposes.

REPSOL ISPLEN PR210G4E is supplied in natural color.

Applications:

- Cold and hot water pressure pipe.

Recommended melt temperature range from 205-225°C. Processing conditions should be optimized for each production line.

Properties:

Properties	Value	Unit	Test Method
GENERAL			
Melt flow rate (190°C, 2.16kg)	0.3	g/10 min	ISO 1133
Melt Flow Rate (230 °C, 5 kg)	1.2	g/10 min	ISO 1133
Density at 23°C	905	kg/m3	ISO 1183
MECHANICAL			
Flexural Modulus	875	MPa	ISO 178
Tensile Stress at Yield	30.1	MPa	ISO 527-2
Tensile Strain at Yield	12	%	ISO 527-2
Tensile Stress at Break	35.9	MPa	ISO 527-2
Tensile Strain at Break	443.9	%	ISO 527-2
Charpy impact strength (23°C, notched)	72.4	KJ/m2	ISO 179
Charpy impact strength (0°C, notched)	7.6	KJ/m2	ISO 179
Charpy impact strength (-20°C, notched)	1.8	KJ/m2	ISO 179
THERMAL			
Vicat softening temperature A 120 (10N)	125	°C	ISO 306
HDT 0.45 MPa	70	°C	ISO 75

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:

The grade REPSOL ISPLEN PR210X6E should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 50ºC 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 the 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.

March 2026

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