TECHNICAL DATA SHEET

Repsol ISPLEN PB110H2E

REPSOL ISPLEN PB110H2E is a high melt viscosity propylene heterophasic copolymer with a reinforced formulation designed for extrusion process. Due to their good flow and outstanding mechanical properties it is suitable to be processed into pipes and its good flexural modulus is specially intended for extrusion of doubled corrugated drainage and sewage pipes.
The grade REPSOL ISPLEN PB110H2E characterized by high impact strength at low temperatures and stress cracking resistance assure the good performance of this material under critical conditions.
It 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 the base polymer.

Applications:

- Structured doubled wall pipes for underground drainage and sewage without pressure.
- Corrugated pipes in general.

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

Properties:

Properties	Value	Unit	Test Method
GENERAL			
Melt flow rate (190ºC, 2.16kg)	0.3	g/10 min	ISO 1133
Melt flow rate (190ºC, 5kg)	1.2	g/10 min	ISO 1133
Density at 23 ºC	905	kg/m3	ISO 1183
MECHANICAL			
Flexural Modulus	1500	MPa	ISO 178
Tensile Stress at Yield	34	MPa	ISO 527
Tensile Strain at Yield	7	%	ISO 527
Charpy impact strength (23ºC, notched)	100	KJ/m2	ISO 179
Charpy impact strength (0ºC, notched)	15	KJ/m2	ISO 179
Charpy impact strength (-20ºC, notched)	8	KJ/m2	ISO 179
THERMAL			
Vicat softening temperature A120 (10 N)	152	ºC	ISO 306
HDT 0.45 MPa	96	ºC	ISO 75
OTHER			
Shore Hardness D	62	-	ISO 868

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

TECHNICAL DATA SHEET

Storage:

The grade REPSOL ISPLEN PB110H2E 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 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

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