

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PB 110 H2E

DESCRIPTION

ISPLEN® PB 110 H2E is a very low melt flow propylene heterophasic copolymer with a reinforced formulation for extrusion processes, and a high thermal stabilisation. Its crystalline structure gives a high rigidity and very high tensile strength resistance. Its flow characteristics and mechanical properties make it specially adapted for high thickness and good superficial shine extrusion products. 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.

TYPICAL APPLICATIONS

In extrusion process that may require high melt viscosity and particularly high tensile properties, such as:

- Boards and Profiles
- Blow-molding
- Sheet extrusion with high superficial shine.
- Pipes.

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (230°C, 5 kg)	1.2	g/10 min	ISO 1133
Density at 23°C	905	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	1200	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	55	kJ/m ²	ISO 179
Thermal			
Vicat 9.8N	147	°C	ISO 306
Heat Deflection Temperature 0.45 MPa	81	°C	ISO 75
Others			
Shore Hardness	62	D Scale	ISO 868

ISPLEN® PB 110 H2E complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ISPLEN® PB 110 H2E 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 which may have a negative influence on the processability and the properties of the transformed product.

November 2013

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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