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ACRAN BOĞAZİÇİ KİMYA A.Ş.

Technical Data Sheet

ISPLEN® Polypropylene

Chemicals

ISPLEN® PB110H2E

ISPLEN® PB110H2E is a very low melt flow propylene heterophasic copolymer with a reinforced formulation for extrusion process, 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 glossy surface films or sheets.
It can be easily coloured during the extrusion process using the right pigments, especially in the form of masterbatches with a higher melt flow rate than that of the base polymer.

APPLICATIONS

In extrusion process requiring high melt viscosity strength and particularly high tensile properties, such as:

- Sheets and Profiles
- Blow-molding
- Glossy surface sheets.
- Pipes.

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

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (230°C/2.16 kg)	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/m^3	ISO 1183
Mechanical			
Flexural modulus of elasticity	1,200	MPa	ISO 178
Charpy impact strength, (23ºC, notched)	55	kJ/m^2	ISO 179
Thermal			
Vicat softening temperature (10 N)	147	°C	ISO 306
HDT 0.45MPa	81	°C	ISO 75
Others			
Shore Hardness D	62	-	ISO 868

ISPLEN® PB110H2E 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® 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 which may have a negative influence on the processability and the properties of the transformed product.

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