



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 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) | 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, (23°C, 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 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.

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