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Isplen® Polypropylene

Chemicals Technical data sheet

REPSOL

# ISPLEN® PB 180 A4M

ISPLEN® PB 180 A4M is a high fluidity heterophasic copolymer characterised by its excellent flow properties and by its good balance of mechanical properties: impact strength and stiffness. It is particularly suitable for injection moulding applications of thin walled articles. The material also shows very low tendency to warp and it is used in goods where dimensional stability is important.

ISPLEN® PB 180 A4M is formulated with a specific additive package to permit the dispersion of static charges accumulated on the article surface avoiding anti-aesthetic dust deposits during storage or exhibition. Additive package also facilitates material processing, reduces internal stresses and makes it easier to extract the pieces from the mould.

## TYPICAL APPLICATIONS

The specific characteristics of ISPLEN® PB 180 A4M are particularly suitable for applications requiring excellent processability and good aesthetic appearance:

- Domestic and leisure furniture.
- Thin-walled boxes and round storage containers for exhibiting food products or consumer goods.
- Industrial components: toys, sports, household appliances, storage organizers...

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) | 20 | g/10 min | ISO 1133 |
| Density | 905 | $kg/m^3$ | ISO 1183 |
| **Mechanical** | | | |
| Flexural Modulus | 1250 | MPa | ISO 178 |
| Charpy Impact Strength Notched 23 °C | 6 | $kJ/m^2$ | ISO 179 |
| **Thermal** | | | |
| Heat Deflection Temperature 0.45MPa | 88 | °C | ISO 75 |
| **Others** | | | |
| Shore Hardness | 62 | D Scale | ISO 868 |

ISPLEN® PB 180 A4M 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 180 A4M 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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