Isplen® Polypropylene

Chemicals Technical data sheet

REPSOL

ISPLEN® PB 181 N2M

ISPLEN® PB 181 N2M is a high fluidity heterophasic copolymer characterised by its good balance of stiffness and impact properties. Due to the nucleating agents it contains, PB181N2M has high stiffness. In addition, the grade shows good impact properties and good processability. ISPLEN® PB181N2M is formulated with a specific additivation to facilitate the dispersion of static charges accumulated on the article surface and avoid anaesthetic dust patterns during storage or exhibition.

Among other technical advantages ISPLEN® PB 181 N2M offer:

- Highly suitable for manufacturing of articles with good impact properties and a high melt flow rate.
- Easy flow enables to fill moulds with complex geometry or big articles.
- Low warpage and high dimensional stability.

TYPICAL APPLICATIONS

ISPLEN® PB 181 N2M characteristics perform a grade particularly designed for applications which main requirement is a good balance between mechanical properties and where good impact properties are needed in a grade of high melt flow rate. Some examples of these applications could be: pails and lids, technical components and containers as heavy duty crates, suitcase shells, professional organizers and automotive components.

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)	25	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	8	kJ/m^2	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	89	°C	ISO 75
Others			
Shore Hardness	60	D Scale	ISO 868

ISPLEN® PB 181 N2M 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 181 N2M 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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