ISPLEN® PB 176 N4M

ISPLEN® PB 176 N4M is a nucleated heterophasic copolymer that combines the impact strength of a conventional copolymer with the high stiffness level of a homopolymer as well as an excellent processability. At the same time, it exhibits a higher crystallisation temperature and a low shrinkage tendency.

ISPLEN® PB 176 N4M clearly outperforms standard products and allows the same application performance with a potential cost reduction for finished articles due to:

- Potential reduction of wall thickness.
- Shorter cooling time: higher mould opening temperatures.
- Can replace mineral filled or blends among polypropylenes.

TYPICAL APPLICATIONS

ISPLEN® PB 176 N4M performance profile expands the final application to broad and diverse goods: packaging (cylindrical containers for paints, leisure chemicals, pool maintenance products), food rounded containers, baskets, garden furniture, flowerpots, toys, trays and technical items for domestic appliances or automotive industries.

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)	15	g/10 min	ISO 1133
Density	905	kg/m^3	ISO 1183
Mechanical			
Flexural Modulus	1600	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	6	kJ/m^2	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	93	°C	ISO 75
Others			
Shore Hardness	66	D Scale	ISO 868

ISPLEN® PB 176 N4M 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 176 N4M 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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