

Technical Data Sheet

**REPSOL
YPF**

**ISPLEN®
POLYPROPYLENE**

ISPLEN[®] PB 186 N4M

Isplen[®] PB 186 N4M is a heterophasic polypropylene copolymer with a superior molecular architecture that combines the impact strength of a conventional block copolymer with the stiffness level of a homopolymer and excellent processability. At the same time, exhibits a higher crystallisation temperature due to controlled chain packaging.

Isplen[®] PB 186 N4M provides excellent flow properties, very high stiffness and good impact strength. Outperforms traditional block copolymers with a potential source of cost reduction for finished articles:

- It does a potential reduction of wall thickness.
- Reduce cooling times: higher mould opening temperatures and shorter cycles.
- Can replace mineral filled or blends among polypropylenes.

TYPICAL APPLICATIONS

Isplen[®] PB 186 N4M is highly suitable to fill moulds with long flow lengths or thin walled articles that demands good dimensional stability together with good impact requirements: packaging, food containers, baskets, garden furniture, leisure goods, flowerpots, toys, storage boxes, trays for fast food, technical items for domestic appliances, automotive, electronic and hardware industries...

PROPERTIES	METHOD	UNIT	VALUE
Physical			
Melt Flow Rate (230 °C; 2.16 kg)	ISO 1133	g/10 min	25
Density	ISO 1183	g/cm ³	0.905
Mechanical			
Flexural Modulus	ISO 178	MPa	1650
Izod Notched Impact Strength (23 °C)	ISO 180	kJ/m ²	4
Izod Unnotched Impact Strength (-20 °C)	ISO 180	kJ/m ²	38
Thermal			
Vicat softening temperature	ISO 306/A	°C	151
Others			
Rockwell Hardness	ISO 2039-2	R Scale	100

NB: values shown are averages and should not be taken as product specifications. They are obtained from standard specimens prepared by injection moulding and conditioned according to ISO methods.

Isplen[®] PB 186 N4M complies with the FDA regulations and European Union Directives regarding contact with foodstuffs. Further details can be supplied on request.

STORAGE

Isplen[®] PB 186 N4M should be stored in a dry atmosphere at temperatures below 60 °C, paved, drained and not flooded area and protected from UV radiation. Storage under improper conditions may initiate degradation processes, negatively influencing processability, properties and visual aspect of transformed article.

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This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

Head Offices:
P.º de la Castellana, 280
28046 Madrid
Spain
www.repsolypf.com/quimica
e-mail: quimica@repsolypf.com

TS & Development:
Tel.: +34 - 91 348 86 00
Fax.: +34 - 91 530 45 17
e-mail:
atdquimica@repsolypf.com
Ctra. Nac. V, km 18
28931 Móstoles, Madrid
Spain

Customer Service in Europe:
UK, Ireland, Scandinavia:
Tel.: 44 - 20 7581 0300
France, Benelux:
Tel.: 33 (0) 146 965 102
Germany, Austria, Switzerland:
Tel.: 49 - 69 610 93 20
Italy:
Tel.: 39 - 02 40 933 92 05
Spain:
Tel.: 34 - 91 348 82 54
Portugal:
Tel.: 800 55 55 11
Other Countries:
Tel.: 34 - 91 348 90 84

e-mail:
sac.uk@repsolypf.com
sac.france@repsolypf.com
sac.deutschland@repsolypf.com
sac.italy@repsolypf.com
sac.quimica@repsolypf.com
sac.portugal@repsolypf.com
sac.quimica@repsolypf.com