

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PP 044 W3F

DESCRIPTION

ISPLEN® PP 044 W3F is a medium melt flow rate polypropylene homopolymer specially formulated and adapted for bioriented film extrusion (BOPP). The product is suitable for metallizable film. Rheological properties enhance orientation and give it very high break resistance in the melt, meaning that it behaves ideally during subsequent treatment.

It is extremely pure and has an excellent thermal stability. It's optical, mechanical and barrier properties are very good.

It can be easily coloured during the extrusion process using the right pigments, preferably in the form of concentrates with a higher melt flow rate than the base polymer.

TYPICAL APPLICATIONS

In extrusion processes such as:

- Bi-oriented film BOPP manufactured using the tenter process.
- High tenacity staple yarn
- Low thickness sheet extrusion

Recommended melt temperature range from 210 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)	3.0	g/10 min	ISO 1133
Density	905	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	1300	MPa	ISO 178
Tensile Stress at Yield	35	kJ/m ²	ISO 179
Thermal			
VICAT (10 N)	152	°C	ISO 306
Heat Deflection Temperature 0.45MPa	91	°C	ISO 75

ISPLEN® PP 044 W3F 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® PP 044 W3F 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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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.

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