

ISPLEN® PP 044 W3F

Polypropylene Homopolymer
REPSOL

Message:

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.

General Information			
Features	Barrier Resin		
	Food Contact Acceptable		
	Good Colorability		
	Good Melt Strength		
	Good Thermal Stability		
	Metallizable		
	Opticals		
Uses	BCF Yarn		
	Bi-axially Oriented Film		
	Film		
	Sheet		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Blown Film		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Flexural Modulus	1300	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	91.0	°C	ISO 75-2/B
Vicat Softening Temperature	152	°C	ISO 306/A
Extrusion	Nominal Value	Unit	
Melt Temperature	210 to 250	°C	

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