

# ISPLEN® PP 089 Y1E

Polypropylene Homopolymer  
REPSOL

PROSPECTOR®

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## Technical Data

### Product Description

ISPLEN® PP 089 Y1E is a high melt flow rate polypropylene homopolymer with narrow molecular weight distribution which provides optimum processing in fibre lines of high speed and large production capacity (BCF/CF and spunbond). It includes a specific formulation resistant to "gas fading" coloration, suitable for protecting the polymer during extrusion process and final use.

### TYPICAL APPLICATIONS

- Indicated for the extrusion of staple fibre and BCF/CF in lines of high speed.
- Specially recommended for hygienic nonwovens in spunbond lines of the latest generation.

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Injection Molding (English)</a> • <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">REPSOL</a>
Availability	• Europe • North America
Additive	• Anti-gas fading
Features	• Food Contact Acceptable • Gas-fading Resistant • High Flow • Narrow Molecular Weight Distribution
Uses	• BCF Multifilaments • Nonwovens • Spunbond Nonwovens • Staple Fibers
Agency Ratings	• EU Food Contact, Unspecified Rating
Processing Method	• Fiber (Spinning) Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.905 g/cm <sup>3</sup>	0.905 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	31 g/10 min	31 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	5220 psi	36.0 MPa	ISO 527-2
Flexural Modulus	239000 psi	1650 MPa	ISO 178
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	194 °F	90.0 °C	ISO 75-2/B
Vicat Softening Temperature	307 °F	153 °C	ISO 306/A
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	374 to 482 °F	190 to 250 °C	

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

