

# ISPLEN® PP 089 Y1E

Polypropylene Homopolymer

REPSOL

Message:

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 Information                                |                                      |          |             |
|--|--------------------------------------|----------|-------------|
| 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                        | Unit     | Test Method |
| Density  | 0.905                                | g/cm³    | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)          | 31                                   | g/10 min | ISO 1133    |
| Mechanical   | Nominal Value                        | Unit     | Test Method |
| Tensile Stress (Yield)                             | 36.0                                 | MPa      | ISO 527-2   |
| Flexural Modulus                                   | 1650                                 | MPa      | ISO 178     |
| Thermal  | Nominal Value                        | Unit     | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 90.0                                 | °C       | ISO 75-2/B  |
| Vicat Softening Temperature                        | 153                                  | °C       | ISO 306/A   |
| Extrusion  | Nominal Value                        | Unit     |             |
| Melt Temperature                                   | 190 to 250                           | °C       |             |

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