

# ISPLEN® PP 045 G1E

Polypropylene Homopolymer  
REPSOL

Message:

ISPLEN® PP 045 G1E is a medium melt flow rate polypropylene homopolymer. It offers excellent processing properties for production of tapes and monofilaments. It is formulated with an additive package suitable for protecting the polymer during extrusion process and final use.

TYPICAL APPLICATIONS

Low fibrillation tapes for textil uses

Monofilaments and tapes for ropes and twines

Extrusion general uses

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

| General Information |                                     |
|---------------------|-------------------------------------|
| Additive            | Unspecified Additive                |
| Features            | Food Contact Acceptable             |
|                     | Good Processability                 |
|                     | Medium Flow                         |
| Uses                | Monofilaments                       |
|                     | Rope                                |
|                     | Tape                                |
|                     | Twine                               |
| Agency Ratings      | EU Food Contact, Unspecified Rating |
| Processing Method   | Extrusion                           |
|                     | Filament Extrusion                  |

| Physical   | Nominal Value | Unit              | Test Method |
|--|---------------|-------------------|-------------|
| Density  | 0.905         | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)          | 4.0           | g/10 min          | ISO 1133    |
| Mechanical   | Nominal Value | Unit              | Test Method |
| Tensile Stress (Yield)                             | 35.0          | MPa               | ISO 527-2   |
| Flexural Modulus                                   | 1400          | 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                        | 153           | °C                | ISO 306/A   |
| Extrusion  | Nominal Value | Unit              |             |
| Melt Temperature                                   | 190 to 250    | °C                |             |

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