

# Isplen® Polypropylene

**Chemicals**
**Technical data sheet**


## ISPLEN® PP040N1E

### DESCRIPTION

ISPLEN® PP 040 N1E is a medium melt flow rate polypropylene homopolymer specially formulated and adapted for extrusion processes and particularly in thermoforming applications.

It is nucleated so that it exhibits high stiffness, good transparency and excellent high temperature properties. It is recommended in sterilisation and hot filling.

### TYPICAL APPLICATIONS

In extrusion processes such as:

- Mainly in sheet extrusion and thermoforming.
- Others are monofilament and weaving tapes.

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

| PROPERTIES                     | VALUE | UNIT              | TEST METHOD |
|--------------------------------|-------|-------------------|-------------|
| <b>General</b>                 |       |                   |             |
| Melt flow rate (230°C/2.16 kg) | 3     | g/10 min          | ISO 1133    |
| Density at 23°C                | 905   | kg/m <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>              |       |                   |             |
| Flexural modulus               | 1600  | MPa               | ISO 178     |
| Tensile Strength at Yield      | 35    | kJ/m <sup>2</sup> | ISO 179     |
| <b>Thermal</b>                 |       |                   |             |
| Vicat (10N)                    | 153   | °C                | ISO 306     |
| HDT 0.45MPa                    | 90    | °C                | ISO 75      |

ISPLEN® PP 040 N1E 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 040 N1E 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.

November 2013

*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.*

**Technical Service and Development:**  
Repsol Technology Centre  
Ctra. de Extremadura A5, Km 18  
28931 Móstoles, Madrid  
Tel. +34 91 753 86 00  
[atd\\_poliiolefinas@repsol.com](mailto:atd_poliiolefinas@repsol.com)

**Headquarters:**  
Méndez Álvaro, 44  
28045 Madrid  
Spain  
[www.chemicals.repsol.com](http://www.chemicals.repsol.com)

**Customer Care:**  
[sacrq@repsol.com](mailto:sacrq@repsol.com)