

# Isplen<sup>®</sup> Polypropylene

## Chemicals

## Technical data sheet



### ISPLEN<sup>®</sup> RC590S2M

ISPLEN<sup>®</sup> RC 590 S2M belongs to a new range of highly transparent family specially designed to satisfy the more exigent necessities of the market.

#### PROCESSING ADVANTAGES

- It allows reducing the cycle time, due to its higher crystallization temperature.
- By its higher stiffness, it increases the mechanical properties of the articles manufactured. Lower tendency to warp.
- Due to the improved optical properties, it is possible to produce articles of higher thickness, maintaining a very good aesthetic result. The haze of this new product in a 2 mm plate is equivalent to the haze of a standard random copolymer in a 1mm plate.

#### TYPICAL APPLICATIONS

ISPLEN<sup>®</sup> RC 590 S2M is specially indicated for applications where the optical properties are really demanding, and in addition is necessary a good processability:

- Thick houseware containers (square and cylindrical shape).
- Transparent boxes and crates for domestic and professional storage.

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)     | 35    | g/10 min          | ISO 1133        |
| Density                              | 905   | kg/m <sup>3</sup> | ISO 1183        |
| <b>Mechanical</b>                    |       |                   |                 |
| Flexural Modulus                     | 1150  | MPa               | ISO 178         |
| Charpy Impact Strength Notched 23 °C | 5     | kJ/m <sup>2</sup> | ISO 179         |
| <b>Optical</b>                       |       |                   |                 |
| Haze (1mm)                           | 4     | %                 | Internal method |

#### STORAGE

ISPLEN<sup>®</sup> RC 590 S2M 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

**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)