# PP REPSOL ISPLEN PP086Y3E

The grade REPSOL ISPLEN PP086Y3E is a high melt flow rate polypropylene homopolymer with a very narrow molecular weight distribution which provides optimum processing in fibre lines of high speed (BCF/CF and spunbond). In addition, the new conditions in production process offer the maximum quality and consistency of the product. Moreover, it has two outstanding characteristics: the rigorous gels control during production and specific formulation resistant to “Gas Fading” coloration protect the polymer during extrusion process and final use.

- Processing this product in suitable conditions allows increasing filaments tenacity up to 10% respect to conventional grades. This leads to savings in material costs and the improvement of finished product properties.
- Easier processing of this product compared with standard material allows manufacturing fibres with fine deniers, which provides softer touch to the final textile.
- The continued use of this product reduces the costs of maintenance associated to the cleaning of spinning and head, and increase the machine availability.

## Applications

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

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

| PROPERTIES | VALUE | UNIT | TEST METHOD |
|---|---|---|---|
| **General** | | | |
| Melt Flow Rate (230 °C/2.16 kg) | 25 | g/10 min | ISO 1133 |
| Density | 905 | kg/m$^3$ | ISO 1183 |
| **Mechanical** | | | |
| Flexural Modulus | 1.600 | MPa | ISO 178 |
| Tensile Strength at Yield | 36 | MPa | ISO 179 |
| **Thermal** | | | |
| VICAT, 9,8N | 153 | ºC | ISO 306 |
| Heat Deflection Temperature 0.45MPa | 90 | °C | ISO 75 |

REPSOL ISPLEN PP086Y3E complies with the European Directives regarding materials intended for contact with foodstuffs. The product mentioned herein is not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

*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.*

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## Storage

REPSOL ISPLEN PP086Y3E should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and properties of the transformed product.

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