# Technical Data Sheet
## Chemicals

# REPSOL ISPLEN PM284AS

REPSOL ISPLEN PM284AS is a polypropylene copolymer, 20% mineral fillers reinforced and high processability. It shows high stiffness and good impact strength. It gives good aesthetic properties and high gloss surface. The product has a standard stabilization, able to be used in the main applications.

## Applications

- Electrical appliances and white line.
- Technical pieces, in general.

Recommended melt temperature range from 190 to 250ºC. Processing conditions should be optimized 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 at 23ºC | 1040 | kg/m$^3$ | ISO 1183 |
| **MECHANICAL** | | | |
| Flexural modulus of elasticity | 2250 | MPa | ISO 178 |
| Tensile strength at break | 18,5 | MPa | ISO 527-2 |
| Elongation at break | 25 | % | ISO 527-2 |
| Tensile strength at yield | 23 | MPa | ISO 527-2 |
| Elongation at yield | 4 | % | ISO 527-2 |
| Izod impact strength (23°C,notched) | 5,2 | kJ/m$^2$ | ISO 180 |
| Izod impact strength (0°C,notched) | 2,75 | kJ/m$^2$ | ISO 180 |
| Izod impact strength (-20°C,notched) | 2,3 | kJ/m$^2$ | ISO 180 |
| Izod impact strength (-20°C,unnotched) | 25 | kJ/m$^2$ | ISO 180 |
| **OTHER** | | | |
| VIcat softening temperature A120 (10N) | 147 | ºC | ISO 306 |
| VIcat softening temperature A120 (50N) | 71 | ºC | ISO 306 |
| HDT 0,45 MPa | 105 | °C | ISO 75 |
| HDT 1,8 MPa | 58 | °C | ISO 75 |
| Shrinkage, 150x100x3mm | 1,0 – 1,2 | % | ISO 2577 |
| Shore Hardness D | 65 | - | ISO 868 |



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 registeres desings cannot be assumed.

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All our polyolefins are recyclable

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## Storage

REPSOL ISPLEN PM284AS 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.

## Disclaimer

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

## Related documents

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet
- Statement on compliance with food contact regulations

**Recommended consumption period:** 12 months from the raw material reception

**March 2024**



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