



## ISPLEN® PM270 BV

Polypropylene homopolymer, 20% mineral fillers reinforced and high melt flow rate.

**ISPLEN® PM270 BV** gives a high stiffness, and a low warpage and shrinkage behaviour. This product is high heat and UV stabilised.

### APPLICATIONS

- Automotive: Under the bonnet parts subjected to high thermal stress (Light housings, heat and ventilation ducts).
- Air conditioning elements inside the car.
- Technical pieces, in general.

| PROPERTIES                     |                           | VALUE       | UNIT              | METHOD    |
|--------------------------------|---------------------------|-------------|-------------------|-----------|
| <b>General</b>                 |                           |             |                   |           |
| MFI (230°C, 2.16Kg)            |                           | 12          | g/10min           | ISO 1133  |
| Density                        |                           | 1,04        | g/cm <sup>3</sup> | ISO 1183  |
| <b>Mechanical</b>              |                           |             |                   |           |
| Flexural Modulus of Elasticity |                           | 2600        | MPa               | ISO 178   |
| Tensile Modulus of Elasticity  |                           | 2400        | MPa               | ISO 527-2 |
| Tensile Strength at Break      |                           | 25          | MPa               | ISO 527-2 |
| Elongation at Break            |                           | 22          | %                 | ISO 527-2 |
| Tensile Strength at Yield      |                           | 32          | MPa               | ISO 527-2 |
| Elongation at Yield            |                           | 5           | %                 | ISO 527-2 |
| Izod Impact Strength           | 23 °C notched / unnotched | 2,7 / 30    | KJ/m <sup>2</sup> | ISO 180   |
|                                | 0 °C notched / unnotched  | 2 / 15      | KJ/m <sup>2</sup> | ISO 180   |
|                                | -20°C notched / unnotched | 1,5 / 11    | KJ/m <sup>2</sup> | ISO 180   |
| <b>Thermal</b>                 |                           |             |                   |           |
| Vicat (10N, 120°/h)            |                           | 153         | °C                | ISO 306   |
| Vicat (50N, 120°/h)            |                           | 95          | °C                | ISO 306   |
| HDT (T <sub>H</sub> 0,45 MPa)  |                           | 109         | °C                | ISO 75    |
| HDT (T <sub>H</sub> 1,8 MPa)   |                           | 66          | °C                | ISO 75    |
| <b>Others</b>                  |                           |             |                   |           |
| Shore D Hardness, 15s          |                           | 73          | °Shore            | ISO 868   |
| Shrinkage, 150x100x3mm         |                           | 0,93 – 0,97 | %                 | ISO 2577  |

### STORAGE

El ISPLEN® PM 270 BV should be stored in dry atmosphere paved, drained and not flooded area at temperatures under 60 °C and protected from UV radiation. Storage under improper conditions could trigger off degradation processes, negatively influencing processability and properties of the transformed product.

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*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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