

# ISPLEN® PB 171 H

Polypropylene Impact Copolymer

REPSOL

## Message:

Block (or heterophasic) ethylene-propylene copolymer and high flow rate.

ISPLEN® PB 171 H shows a high stiffness, even at low temperatures, as well as good processability.

The product is high heat stabilised specially designed for chemical agents.

## TYPICAL APPLICATIONS

Automotive: under bonnet parts and colour savers.

Technical pieces.

| General Information                       |                           |                   |             |
|-------------------------------------------|---------------------------|-------------------|-------------|
| Additive                                  | Heat Stabilizer           |                   |             |
| Features                                  | Good Processability       |                   |             |
|                                           | Heat Stabilized           |                   |             |
|                                           | High Flow                 |                   |             |
|                                           | High Stiffness            |                   |             |
|                                           | Low Temperature Resistant |                   |             |
| Uses                                      | Automotive Applications   |                   |             |
|                                           | Automotive Under the Hood |                   |             |
|                                           | Engineering Parts         |                   |             |
| Physical                                  | Nominal Value             | Unit              | Test Method |
| Density                                   | 0.905                     | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 11                        | g/10 min          | ISO 1133    |
| Molding Shrinkage <sup>1</sup>            | 1.8 to 2.2                | %                 | ISO 2577    |
| Hardness                                  | Nominal Value             | Unit              | Test Method |
| Shore Hardness (Shore D, 15 sec)          | 65                        |                   | ISO 868     |
| Mechanical                                | Nominal Value             | Unit              | Test Method |
| Tensile Stress (Yield)                    | 23.0                      | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                    | 7.0                       | %                 | ISO 527-2   |
| Flexural Modulus                          | 1100                      | MPa               | ISO 178     |
| Impact                                    | Nominal Value             | Unit              | Test Method |
| Charpy Notched Impact Strength            |                           |                   | ISO 179     |
| 0°C                                       | 7.0                       | kJ/m <sup>2</sup> |             |
| 23°C                                      | 20                        | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength          |                           |                   | ISO 179     |
| 0°C                                       | No Break                  |                   |             |
| 23°C                                      | No Break                  |                   |             |
| Notched Izod Impact Strength              |                           |                   | ISO 180     |

| -20°C                          | 7.0           | kJ/m <sup>2</sup> |             |
|--------------------------------|---------------|-------------------|-------------|
| 0°C                            | 7.5           | kJ/m <sup>2</sup> |             |
| 23°C                           | 40            | kJ/m <sup>2</sup> |             |
| Unnotched Izod Impact Strength |               |                   | ISO 180     |
| -20°C                          | 65            | kJ/m <sup>2</sup> |             |
| 0°C                            | 80            | kJ/m <sup>2</sup> |             |
| 23°C                           | No Break      |                   |             |
| Thermal                        | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature    |               |                   |             |
| 0.45 MPa, Unannealed           | 85.0          | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed            | 53.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature    |               |                   |             |
| --                             | 150           | °C                | ISO 306/A   |
| --                             | 72.0          | °C                | ISO 306/B   |
| Thermal Stability (150°C)      | > 2           | day               |             |
| NOTE                           |               |                   |             |
| 1.                             | 150x100x3mm   |                   |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

