

# HB 1800 GP

Technical Data Sheet  
Polypropylene, Homopolymer



## Product Description

HB 1800 GP is a homopolymer polypropylene used by customers for injection moulding applications. It exhibits good flow and stiffness.

HB 1800 GP is non-phthalate grade. This product is suitable for food contact.

## Product Characteristics

|                   |  |
|-------------------|--|
| Application       | General Purpose. Furniture. Housewares                       |
| Processing Method | Compounding. Injection Molding                               |
| Market            | Consumer Products. Rigid Packaging                           |
| Features          | Medium Flow. Medium Stiffness. Homopolymer<br>Phthalate-Free |

## Typical Properties

|  | Nominal Value | Units             | Test Method |
|--|---------------|-------------------|-------------|
| <b>Physical</b>                        |               |                   |             |
| Melt Flow Rate (230°C/2.16kg)          | 18            | g/10 min          | ISO 1133    |
| <b>Mechanical</b>                      |               |                   |             |
| Flexural modulus (2 mm/min)            | 1450          | MPa               | ISO 178     |
| Tensile modulus (1 mm/min)             | 1400          | MPa               | ISO 527     |
| Tensile Strength at Yield (50 mm/min)  | 33            | MPa               | ISO 527     |
| Elongation at Yield (50 mm/min)        | 9             | %                 | ISO 527     |
| <b>Impact</b>                          |               |                   |             |
| Charpy Impact Strength (Notched, 23°C) | 2.5           | kJ/m <sup>2</sup> | ISO 179     |
| Izod Impact Strength (Notched, 23°C)   | 3.0           | kJ/m <sup>2</sup> | ISO 180     |
| <b>Thermal</b>                         |               |                   |             |
| Vicat Softening Temperature (10N)      | 153           | °C                | ISO 306     |
| Heat Deflection Temperature (0.45 MPa) | 83            | °C                | ISO 75B     |

## Notes

These are typical property values not to be construed as specification limits

## REACH

Polypropylene are exempted from registration under REACH. However, the corresponding monomers (used as raw materials for polymer production) and production) and relevant additives have been registered. Please see related Declaration of Compliance for Plastic Food Contact Materials (DoC for PFCM).

## Packaging

Polypropylene pellets is typically packed in polyethylene bags with net weight of 25kg each. 50 bags are stacked on a flat wooden pallet (dimensions: 1100mm x 1300mm x 150mm) with net weight of 1250kg per pallet that is stretch-hood film wrapped. Upon agreement with a customer PP pellet can be packed into big bag sized for 1000kg on wooden pallet (dimensions: 1140mm x 1140mm x 150mm) without stretch-hood film wrapping.

## Storage

Polypropylene product packed in 25kg bags or 1000kg big bags stacked on wooden pallet shall be stored in enclosed dry place preventing from direct sunlight at least 1 meter far from heaters, at temperature min. -15°C / max. 35°C, relative humidity max. 80%. Prior to processing PP product bags shall be kept in production area for at least 12 hours.

PP shelf life is 36 months from the date of manufacture.

POLYPROPYLENE HOMOPOLYMER