

HB 4500 GP

Technical Data Sheet

Polypropylene, Homopolymer



Product Description

HB 4500 GP is a homopolymer polypropylene usually used by customers for thin walled injection moulding application. It exhibits a high fluidity combined with a good stiffness.

HB 4500 GP is non-phthalate grade. This product is suitable for food contact.

Product Characteristics

Application	General Purpose. Furniture. Housewares
Processing Method	Compounding. Injection Molding. TWIM
Market	Consumer Products
Features	High Flow. Medium Stiffness. Homopolymer Phthalate-Free

Typical Properties

Physical

Melt Flow Rate (230°C/2.16kg)

45 g/10 min ISO 1133

Mechanical

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)

32 MPa ISO 527

Elongation at Yield (50 mm/min)

9 % ISO 527

Impact

Charpy Impact Strength (Notched, 23°C)

2.0 kJ/m² ISO 179

Izod Impact Strength (Notched, 23°C)

2.5 kJ/m² ISO 180

Thermal

Vicat Softening Temperature (10N)

154 °C ISO 306

Heat Deflection Temperature (0.45 MPa)

90 °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