

HB 0456 FR

Technical Data Sheet

Polypropylene, Homopolymer



Product Description

HB 0456 FR is a polypropylene homopolymer used for extrusion and thermoforming applications. HB 0456 FR has a wide molecular weight distribution and formulated with a low water carry-over additive package.

Typical applications are monofilaments, ropes and tapes.

HB 0456 FR is non-phthalate grade. This product is suitable for food contact.

Product Characteristics

Application	Raffia. Tapes
Processing Method	Extrusion. Tapes. Raffia
Market	Textile. Flexible Packaging
Features	Low Water Carry Over. Homopolymer. Wide MWD. Phthalate-Free

Typical Properties

	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate (230°C/2.16kg)	4.0	g/10 min	ISO 1133
Mechanical			
Flexural modulus (2 mm/min)	1450	MPa	ISO 178
Tensile modulus (1 mm/min)	1350	MPa	ISO 527
Tensile Strength at Yield (50 mm/min)	33	MPa	ISO 527
Elongation at Yield (50 mm/min)	10	%	ISO 527
Impact			
Charpy Impact Strength (Notched, 23°C)	4.5	kJ/m ²	ISO 179
Izod Impact Strength (Notched, 23°C)	5.0	kJ/m ²	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