



Hipol

Product data Sheet

Product Name Grade	Polypropylene HIPOLEN P FY 6
Polymer Type	Polypropylene homopolymer
Processing Method	Extrusion of blown or flat film for tape yarn (raffia)
Applications	<ul style="list-style-type: none">• Baler and packaging twines• Ropes• Industrial heavy duty fabrics and mats• Woven bags
Product Description	HIPOLEN P FY 6 is low flow homopolymer with a good balance between melt strength and production rate. Grade FY 6 is designed for extrusion of flat and tubular films, intended for conversion into stretched tapes for high denier yarn (3300-30000 dtex). End use products have high tensile properties and very consistent shrinkage after processing. Yarn from stretched tapes is used in the place of more classic vegetable fibers, like sisal, hemp and jute.
Packaging and Designation	HIPOLEN P is packaged in coated PP valve bags with a net weight of 25 kg each. 55 bags in 11 layers are set on wood pallet and overwrapped with thermo-shrink film. Pallet net weight is 1375 kg and dimensions are: length 1300 mm, width 1100 mm and height is approximately 2000 mm. Following data are printed on every bag: Polypropylene grade, lot number and batch number.
Storage Conditions	Pallets with PP should be stored in common storage areas at temperatures between 0°C and +40°C, protected from direct sunlight, rain and heat sources. PP is combustible polymer and regular measures of fire-fighting should be taken in storage areas. If large quantities of PP are stored, the usual stock control should be organized and presence of dust and moisture must be avoided. At least 8 hours before processing, conditioning of PP pellets at ambient temperature in production rooms is recommended.

Product Properties	Testing Method	Nominal Value	Unit
Melt Flow Rate MFR	ISO 1133, (230°C; 2,16 kg)	2,3	g/10 min
Density	ISO 1183 (D)	0,90	g/cm ³
Tensile Strength at Yield	ISO 527	33	MPa
Tensile Modulus	ISO 527	1350	MPa
Flexural Modulus	ISO 178	1250	MPa
IZOD Impact Resistance	ISO 180 (23°C, notched)	4,5	kJ/m ²
VICAT Softening Temperature	ISO 306 (A50-50°C/h, 10N)	152	°C
Heat Deflection Temperature	ISO 75A (1,80 MPa)	55	°C
	ISO 75B (0,45 MPa)	100	°C

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