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Technical 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)** **Extrusion of monofilament**
Applications	• **Baler and packaging twines** • **Ropes** • **Woven bags** • **Industrial heavy duty fabrics and mats**
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.

Property	Testing Method	Nominal Value	Unit
Melt Flow Rate MFR	ASTM D1238 (230°C; 2,16 kg)	**2,3**	g/10 min
Index of Isotacticity	ISO/DIS 1873-1	**98**	% wt
Tensile Strength at Yield	ASTM D638	**32**	MPa
Flexural Modulus	ASTM D790	**1300**	MPa
IZOD Impact Resistance	ASTM D256 (23°C, notched)	**4,0**	kJ/m^2

Note: Mechanical property values carried out on compression molded test specimens.