



**Product data Sheet**

<b>Product Name</b>	<b>Polypropylene HIPOLEN P</b>
<b>Grade</b>	<b>FY 5</b>
<b>Polymer Type</b>	Polypropylene homopolymer
<b>Processing Method</b>	<b>Extrusion of blown or flat film for tape yarn (raffia)</b> <b>Extrusion of monofilament</b>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• <b>Film tapes for textile yarn</b></li> <li>• <b>Carpet backing, industrial heavy duty fabrics and mats</b></li> <li>• <b>Woven bags</b></li> <li>• <b>Monofilament for brush and broom filling</b></li> <li>• <b>Monofilament for technical application</b></li> </ul>
<b>Product Description</b>	<p>HIPOLEN P FY 5 is medium flow homopolymer with a good balance between melt strength and production rate. Grade FY 5 is designed for extrusion of flat and tubular films, intended for conversion into lighter denier stretched tapes, ranging from 1100 to 1200 dtex. End use products have high tensile properties and very consistent shrinkage behavior after processing. Yarn from stretched tapes is used in the place of various vegetable fibers, like jute and coconut fibers.</p>
<b>Packaging and Designation</b>	<p>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.</p>
<b>Storage Conditions</b>	<p>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.</p>

Product Properties	Testing Method	Nominal Value	Unit
<b>Melt Flow Rate MFR</b>	ISO 1133, (230°C, 2,16 kg)	<b>3,3</b>	g/10 min
<b>Density</b>	ISO 1183 (D)	<b>0,90</b>	g/cm <sup>3</sup>
<b>Tensile Strength at Yield</b>	ISO 527	<b>33</b>	MPa
<b>Tensile Modulus</b>	ISO 527	<b>1300</b>	MPa
<b>Flexural Modulus</b>	ISO 178	<b>1250</b>	MPa
<b>IZOD Impact Resistance</b>	ISO 180 (23°C, notched)	<b>4,2</b>	kJ/m <sup>2</sup>
<b>VICAT Softening Temperature</b>	ISO 306 (A50-50°C/h, 10N)	<b>152</b>	°C
<b>Heat Deflection Temperature</b>	ISO 75A (1,80 MPa)	<b>55</b>	°C
	ISO 75B (0,45 MPa)	<b>100</b>	°C

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