

**PRODUCT TECHNICAL INFORMATION**

ITA/ATEXP/432

Rev. 00 – 15/01/09

Page 1/2

**HYDRONAP**  
**Flexible polypropylene geomembrane**



**DESCRIPTION AND SCOPE OF APPLICATION**

**HYDRONAP** is a flexible polypropylene geomembrane, homogeneous, black, with excellent flexibility.

**HYDRONAP** is available in different thickness and widths.

Products benefit of ASQUAL certification.

**PHYSICAL AND MECHANICAL CHARACTERISTICS**

HYDRONAP	Units	Test Method	Nominal Values	
Thickness	mm	ASTM D 5199	<b>1</b>	<b>1.5</b>
Density	g/cm <sup>3</sup>	ASTM D 792 / 1505A	0.88	0.88
Dimensional stability	%	ASTM D 1204	± 1	± 1
Stress at break (CD/CMD)	Mpa	ISO 527-3	22	22
Elongation at break (CD/CMD)	%		900	900
Tear resistance	N	ASTM D 1004	55	90
Puncture resistance	kN	EN ISO 12236	0.98	1.41
Low temperature brittleness	°C	ASTM 746, Condition B	< -40	< -40
Melt Flow Index	g/10 min	ASTM D 1238 (190 °C, 2,16 kg)	< 1	<1
Carbon black content	%	ASTM D1603	3	3
Carbon black dispersion	Category	ASTM D 5596	1 to 2	
Stress-cracking resistance	h	ASTM D 1693	3000	
UV resistance		SIA 280	No loss in tensile properties after 1000 h	

CD : Cross Direction  
CMD : Cross Direction

**PRODUCT TECHNICAL INFORMATION**

ITA/ATEXP/432

Rev. 00 – 15/01/09

Page 2/2

**PACKAGING**

	Thickness	Width	Length	Weight/roll	Surface/roll
<b>HYDRONAP</b>	<b>1 mm</b>	2.85 m	200 m	530 kg	570 m <sup>2</sup>
	<b>1 mm</b>	5.70 m	200 m	1050 kg	1140 m <sup>2</sup>
	<b>1.5 mm</b>	2.85 m	135 m	530 kg	384 m <sup>2</sup>
	<b>1.5 mm</b>	5.70 m	135 m	1050 kg	768 m <sup>2</sup>

- Rolls must be stored horizontally, in their original packaging.
- The external roll diameter is app. 65 cm. The mandrel diameter is 15 cm.

**ACCESSORY****HYDRONAP cordon**

Polypropylene extrusion wire (diameter 4 mm) used for extrusion welding by hand extruders. HYDRONAP cordon is packed in bobbins of 5 kg (app. 420 m).