

MACTEX P GRADE			PN 100.1	PH 100.1	PN 200.1	PH 200.1	PN 300.1	PH 300.1	PN 500.1	PN 700.1	PN 900.1
<b>Mechanical and Hydraulic properties</b>											
Tensile strength — MD	kN/m	EN 10319	39.5 (-3.90)	39.5 (-3.90)	45.0 (-4.5)	45.0 (-4.5)	53.0 (-5.0)	45.0 (-5.0)	55.0 (-5.0)	65.0 (-5.0)	70.0 (-6.0)
Elongation — MD	%	EN 10319	70 (± 20)	50 (± 20)	80 (± 20)	50 (± 15)	90 (± 20)	80 (± 20)	90 (± 20)	90 (± 20)	90 (± 20)
Tensile strength — CMD	kN/m	EN 10319	42.0 (-4.20)	42.0 (-4.20)	50.0 (-5.0)	50.0 (-5.0)	57.0 (-5.0)	57.0 (-5.0)	65.0 (-6.0)	75.0 (-6.0)	70.0 (-6.0)
Elongation — CMD	%	EN 10319	80 (± 20)	50 (± 20)	80 (± 20)	50 (± 20)	90 (± 20)	50 (± 20)	90 (± 20)	90 (± 20)	90 (± 20)
CBR Static puncture resistance	kN	EN 12236	7.0 (-0.7)	7.0 (-0.7)	8.4 (-0.84)	8.4 (0.84)	9.5 (-0.95)	9.5 (-0.95)	10.0 (-1.0)	12.0 (-1.2)	15.0 (-1.9)
Dynamic puncture resistance	mm	EN 13433	3 (+0.6)	3 (+0.6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Protection Efficiency according to EN 13719	%	@ 300 kPa	2.01 (+0.20)	n.a.	2.01 (+0.20)	n.a.	2.01 (+0.20)	n.a.	2.01 (+0.20)	2.01 (+0.20)	2.01 (+0.20)
	%	@ 600 kPa	3.63 (+0.36)	n.a.	3.63 (+0.36)	n.a.	3.63 (+0.36)	n.a.	3.63 (+0.36)	3.63 (+0.36)	3.63 (+0.36)
	%	@ 1200 kPa	7.30 (+0.73)	n.a.	7.30 (+0.73)	n.a.	7.30 (+0.73)	n.a.	7.30 (+0.73)	7.30 (+0.73)	7.30 (+0.73)
Opening Pore size O <sub>90</sub> according to EN ISO 11058	µm		70 (± 30)	50 (± 20)	70 (± 30)	50 (± 20)	70 (± 20)	50 (± 20)	70 (± 20)	70 (± 20)	70 (± 20)
Transmissivity according to EN ISO 12958	1x10 <sup>-6</sup> m <sup>2</sup> /s	at 20kPa	10.0 (-3.00)	1.6 (-0.5)	14.0 (-4.20)	1.7 (-0.51)	14.0 (-4.20)	1.7 (-0.51)	18.0 (-5.40)	24.0 (-7.20)	24.0 (-7.20)
		at 100kPa	4.50 (-1.40)	0.88 (-0.26)	5.50 (-1.65)	0.92 (-0.27)	5.50 (-1.65)	0.92 (-0.27)	5.50 (-1.65)	6.60 (-1.98)	6.60 (-1.98)
		at 200kPa	3.20 (-0.90)	0.82 (-0.25)	3.50 (-1.05)	0.87 (-0.26)	3.50 (-1.05)	0.87 (-0.26)	3.50 (-1.05)	4.20 (-1.26)	4.20 (-1.26)
<b>Physical properties - typical</b>											
Polymer raw material			high tenacity polypropylene								
Mass per unit	gr/m <sup>2</sup>	EN 9864	600	600	700	700	800	800	1000	1200	1500
Thickness (at 2 kPa)	mm	EN 9863-1	3.8	2.6	4.0	3.0	5.0	4.0	7.0	8.0	9.0
Roll width	m		3.0 - 6.0 m according to stock and availability (2.93m - 5.85m if shipping in containers)								
Roll length	m		100	100	50	50	50	50	30	25	25
Durability			Material to be covered within one month after installation. Life expectancy in natural soils (4<ph<9) at a temperature <25 °C is greater than 25 years								

- **Nonwoven geotextiles manufactured with virgin high-tenacity polypropylene fibers assembled by a needle punched treatment only (PN) or needlepunched and thermocalandered after assembly (PH)**
- The fabrics are CE marked according to EN 13249, 13250, 13251, 13252, 13253, 13254, 13255, 13256, 13257, 13265 for the following intended uses: F, D, R, P(\*), F+D, R+P(\*), F+S+D, F+R+S, F+S, R+S, F+R.
- (\*) PN Grades only



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