

MACTEX N GRADE			N 10.1	N15.1	N 25.1	N 35.1	N 40.1	N 50.1	N 60.1	N 80.1	N 90.1
<b>Mechanical and Hydraulic properties</b>											
Tensile strength — MD	kN/m	EN 10319	6.0 (-0.6)	7.5 (-0.7)	10.0 (-1.0)	13.0 (-1.3)	14.0 (-1.0)	19.0 (-2.0)	22.0 (-2.0)	29.0 (-3.0)	34.0 (-3.0)
Elongation — MD	%	EN 10319	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)
Tensile strength — CMD	kN/m	EN 10319	6.0 (-0.6)	7.5 (-0.7)	10.0 (-1.0)	13.0 (-1.3)	14.0 (-1.0)	19.0 (-2.0)	22.0 (-2.0)	29.0 (-3.0)	39.0 (-3.0)
Elongation — CMD	%	EN 10319	85 (± 20)	85 (± 20)	80 (± 20)	80 (± 20)	80 (± 20)	80 (± 20)	80 (± 20)	70 (± 20)	80 (± 20)
CBR Static puncture resistance	N	EN 12236	1100 (-105)	1300 (-130)	1650 (-150)	2250 (-225)	2600 (-260)	3300 (-330)	3700 (-370)	5300 (-500)	6000 (-600)
Dynamic puncture resistance	mm	EN 918	25 (+6)	23 (+5)	20 (+4)	17 (+3.7)	16 (+3.5)	13 (+2.5)	11 (+2)	7 (+1.4)	7 (+1.4)
Permability (normal to plane)	l/m <sup>2</sup> /sec	EN 12956	120	118	115	100	85	70	60	40	30
Tolerance			-36	-35	-34	-30	-25	-21	-18	-12	-9
Opening Pore size O <sub>90</sub> according to EN ISO 11058	µm		110 (± 35)	100 (± 30)	100 (± 30)	90 (± 30)	80 (± 30)	80 (± 30)	80 (± 30)	80 (± 30)	80 (± 30)
Transmissivity according to EN ISO 12958	1x10 <sup>-7</sup> m <sup>2</sup> /s	at 20 kPa	12.0 (-4.00)	15.0 (-4.50)	20.0 (-6.0)	25.0 (-7.50)	30.0 (-9.00)	32.0 (-9.60)	32.0 (-9.60)	48.0 (-14.4)	90.0 (-27.0)
		at 100 kPa	3.20 (-0.96)	4.00 (-1.20)	6.50 (-1.95)	8.00 (-2.40)	10.0 (-3.00)	12.0 (-3.60)	12.0 (-3.60)	20.0 (-6.0)	35.0 (-10.5)
		at 200 kPa	1.60 (-0.48)	2.00 (-0.60)	4.00 (-1.20)	6.00 (-1.80)	6.50 (-1.95)	8.00 (-2.40)	8.00 (-2.40)	10.0 (-3.0)	28.0 (-8.4)
<b>Physical properties - typical</b>											
Polymer raw material			high tenacity polypropylene								
Mass per unit	gr/m <sup>2</sup>	EN 9864	100	120	150	180	200	250	300	400	500
Thickness (at 2 kPa)	mm	EN 9863-1	1.2	1.4	1.6	1.8	2.0	2.1	2.4	3.2	3.5
Roll width	m		3.0 - 6.0 m according to stock position (2.93 - 5.85m if shipping in containers)								
Roll length	m		180	150	120	110	100	90	100	60	50
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.
- 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, F+D, F+S+D, F+R+S, F+S, R+S, F+R.
- Intermediate grades are available on request



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