

NEEDLE PUNCHED & HEAT-CALANDARED NONWOVEN GEOTEXTILES

MACTEX H GRADE			H 10.1	H 15.1	H 20.1	H 30.1	H 35.1	H 45.1	H 50.1	H 60.1	H 65.1	H 90.1
Mechanical and Hydraulic properties												
Tensile strength — MD	kN/m	EN 10319	6.0 (-0.6)	7.5 (-0.7)	9.5 (-1.0)	11.0 (-1.0)	13.0 (-1.3)	16.0 (-1.5)	19.0 (-2.0)	22.0 (-2.0)	24.0 (-2.0)	34.0 (-3.0)
Elongation — MD	%	EN 10319	50 (± 15)	50 (± 15)	50 (± 15)	50 (± 15)	50 (± 15)	50 (± 15)	50 (± 15)	50 (± 15)	50 (± 15)	50 (± 15)
Tensile strength — CMD	kN/m	EN 10319	6.0 (-0.6)	7.5 (-0.7)	9.5 (-1.0)	11.0 (-1.0)	13.0 (-1.3)	16.0 (-1.5)	19.0 (-2.0)	22.0 (-2.0)	24.0 (-2.0)	39.0 (-3.0)
Elongation — CMD	%	EN 10319	60 (± 20)	70 (± 20)	65 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)	60 (± 20)
CBR Static puncture resistance	N	EN 12236	1100 (-105)	1300 (-130)	1600 (-160)	2000 (-200)	2250 (-225)	2900 (-290)	3300 (-330)	3700 (-370)	4300 (-400)	6000 (-600)
Dynamic puncture resistance	mm	EN 13433	33 (+6.6)	31 (+6)	29 (+6)	27 (+5.4)	26 (+5.2)	22 (+4.2)	20 (+4.0)	15 (+3)	14 (+2.8)	7 (+1.5)
Permeability (normal to plane)	l/m ² /sec	EN 12956	86	75	70	60	50	40	35	25	15	10
Tolerance			-26	-22	-21	-18	-15	-12	-10	-7	-5	-5
Opening Pore size O ₉₀	µm	EN 11058	90 (± 30)	80 (± 30)	75 (± 30)	70 (± 20)	70 (± 20)	70 (± 20)	70 (± 20)	65 (± 20)	65 (± 20)	60 (± 20)
Transmissivity to EN ISO 12958	1x10 ⁻⁷ m ² /s	at 20 kPa	4.5 (-1.40)	5.0 (-1.50)	8.50 (-2.60)	12.0 (-3.60)	12.0 (-3.60)	12.0 (-3.60)	13.0 (-4.00)	14.0 (-4.2)	14.0 (-4.2)	16.0 (-4.80)
		at 100 kPa	1.50 (-0.45)	2.0 (-0.60)	3.50 (-1.05)	4.0 (-1.20)	4.0 (-1.20)	4.0 (-1.20)	8.3 (-2.49)	8.3 (-2.49)	8.3 (-2.49)	8.80 (-2.64)
		at 200 kPa	1.00 (-0.30)	1.0 (-0.30)	3.50 (-1.05)	3.50 (-1.05)	3.5 (-1.05)	3.5 (-1.05)	7.8 (-2.34)	7.8 (-2.40)	7.8 (-2.40)	8.20 (-2.46)
Physical properties - typical												
Polymer raw material			high tenacity polypropylene									
Mass per unit	gr/m ²	EN 9864	100	120	140	160	180	220	250	300	330	500
Thickness (at 2 kPa)	mm	EN 9863-1	0.65	0.65	0.75	0.90	0.95	1.10	1.20	1.45	1.50	2.10
Roll width	m		3.0 - 6.0 m according to stock and availability (2.93 - 5.85 if shipping in containers)									
Roll length	m		160	150	110	110	110	100	90	70	65	55
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 and thermocalandered.
- 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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