



GeoMatt NP Range

Needle punched nonwoven (PP) geotextile

GeoMatt Geotextiles are manufactured from 100% virgin polypropylene (PP) polymer and are UV stabilized. These products can be successfully used in transportation, environmental, hydraulic and civil engineering applications and perform major functions including separation, filtration, drainage, reinforcement and membrane protection.

TECHNICAL DATA SHEET

MECHANICAL PROPERTIES	TEST	UNIT	NP75	NP80	NP85	NP90	NP100	NP110	NP120	NP130	NP140
Tensile Strength - MD	EN ISO 10319	kN/m	46	48	50	55	58	64	70	75	80
Tensile Strength - XD	EN ISO 10319	kN/m	46	48	50	55	58	64	70	75	80
Elongation at break - MD	EN ISO 10319	%	70	70	70	70	70	70	70	70	70
Elongation at break - XD	EN ISO 10319	%	75	75	75	75	75	75	75	75	75
CBR Puncture Resistance	EN ISO 12236	N	7600	8150	8750	9500	10000	11100	12200	13200	14250
Dynamic Cone Drop	EN ISO 13433	mm	5	4	3	3	2	1	0	0	0
Pyramid Puncture	EN ISO 14574	N	685	750	800	875	950	1100	1250	1350	1475
HYDRAULIC PROPERTIES	TEST	UNIT	NP75	NP80	NP85	NP90	NP100	NP110	NP120	NP130	NP140
Permeability	EN ISO 11058	m/s. 10 ⁻³	34	30	28	25	25	23	21	20	20
Waterflow normal to plane	EN ISO 11058	l/m2.s	34	30	28	25	25	23	21	20	20
Characteristic Opening Size	EN ISO 12956	µm	60	60	60	55	55	55	55	55	55
PHYSICAL PROPERTIES	TEST	UNIT	NP75	NP80	NP85	NP90	NP100	NP110	NP120	NP130	NP140
Polymer Type	100% Virgin Polypropylene										
Thickness under 2 kPa	EN ISO 9863-1	mm	4.5	4.7	5	5.4	5.8	6.4	7	7.4	7.8
Mass per Unit Area	EN ISO 9864	g/m ²	600	650	700	750	800	900	1000	1100	1200
Roll Width		m	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Roll Length		m	50	50	50	50	35	35	35	35	35
40' Container Load (+/- 10%)		m ²	11,800	11,210	10,620	10,620	9,912	9,086	7,847	7,647	7,434
Roll Diameter (+/- 10%)		cm	51	52	53	55	48	49	52	53	55
DURABILITY											
UV Protection	EN 12224	Retained Strength of > 80% after 50 MJ/m ² exposure To be covered within 1 month after installation. Predicted to be durable for over 25 years in natural soils with 4 < ph. < 9 and soil temperature < 25 °C									
Oxidation Resistance	EN ISO 13438	Retained Strength > 90% at ((110±1) °C after 14 days exposure.									
Chemical Resistance	EN ISO 14030	Excellent									
Microbiological Resistance	EN ISO 12225	Excellent									

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