



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	NP12	NP14	NP15	NP16	NP17	NP20	NP25	NP28	NP31
Tensile Strength - MD	EN ISO 10319	kN/m	7	9	10	11	11.5	13.5	15.5	17.5	19
Tensile Strength - XD	EN ISO 10319	kN/m	7	9	10	11	11.5	13.5	15.5	17.5	19
Elongation at break - MD	EN ISO 10319	%	60	60	60	60	65	65	65	65	65
Elongation at break - XD	EN ISO 10319	%	70	70	70	70	70	70	70	70	75
CBR Puncture Resistance	EN ISO 12236	N	1200	1500	1650	1750	1850	2200	2600	3000	3200
Dynamic Cone Drop	EN ISO 13433	mm	26	24	23	22	22	19	18	13	13
Pyramid Puncture	EN ISO 14574	N	-	-	-	-	-	-	-	-	-
HYDRAULIC PROPERTIES	TEST	UNIT	NP12	NP14	NP15	NP16	NP17	NP20	NP25	NP28	NP31
Permeability	EN ISO 11058	m/s. 10 ⁻³	110	105	105	100	95	90	80	70	65
Waterflow normal to plane	EN ISO 11058	l/m2.s	110	105	105	100	95	90	80	70	65
Characteristic Opening Size	EN ISO 12956	µm	130	120	120	110	110	90	80	80	75
PHYSICAL PROPERTIES	TEST	UNIT	NP12	NP14	NP15	NP16	NP17	NP20	NP25	NP28	NP31
Polymer Type	100% Virgin Polypropylene										
Thickness under 2 kPa	EN ISO 9863-1	mm	1.65	1.5	1.75	1.85	1.95	2.1	2.3	2.45	2.6
Thickness under 20 kPa	EN ISO 9863-1	mm	1.07	1.15	1.2	1.25	1.35	1.65	1.68	1.95	2.15
Mass per Unit Area	EN ISO 9864	g/m ²	100	120	130	140	150	180	200	230	250
Roll Width		m	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Roll Length		m	100	100	100	100	100	100	100	100	100
40' Container Load (+/- 10%)		m ²	65,490	48,970	46,020	41,300	41,300	41,300	35,400	28,320	23,600
Roll Diameter (+/- 10%)		cm	33	37	38	39	40	41	43	48	50
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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