



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	NP34	NP35	NP40	NP43	NP46	NP50	NP56	NP62	NP70
Tensile Strength - MD	EN ISO 10319	kN/m	20	21	23	26	28	31	33.5	39	43
Tensile Strength - XD	EN ISO 10319	kN/m	20	21	23	26	28	31	33.5	39	43
Elongation at break - MD	EN ISO 10319	%	65	65	65	65	65	65	65	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	3500	3700	4000	4500	4750	5100	5600	6300	7000
Dynamic Cone Drop	EN ISO 13433	mm	12	12	11	10	10	8	7	6	6
Pyramid Puncture	EN ISO 14574	N	-	-	325	375	395	425	475	585	635
HYDRAULIC PROPERTIES	TEST	UNIT	NP34	NP35	NP40	NP43	NP46	NP50	NP56	NP62	NP70
Permeability	EN ISO 11058	m/s. 10 ⁻³	60	60	58	55	50	47	45	40	37
Waterflow normal to plane	EN ISO 11058	l/m2.s	60	60	58	55	50	47	45	40	37
Characteristic Opening Size	EN ISO 12956	µm	75	75	70	70	70	70	70	60	60
PHYSICAL PROPERTIES	TEST	UNIT	NP34	NP35	NP40	NP43	NP46	NP50	NP56	NP62	NP70
Polymer Type	100% Virgin Polypropylene										
Thickness under 2 kPa	EN ISO 9863-1	mm	2.8	2.9	3	3.3	3.4	3.7	3.9	4.1	4.3
Thickness under 20 kPa	EN ISO 9863-1	mm	2.25	2.3	2.34	0.65	2.8	3.05	3.15	3.34	3.65
Mass per Unit Area	EN ISO 9864	g/m ²	270	280	300	350	370	400	450	500	565
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	50	50	50	50	50	50	50
40' Container Load (+/- 10%)		m ²	22,420	22,420	23,010	20,650	20,650	16,815	15,930	14,160	12,980
Roll Diameter (+/- 10%)		cm	51	52	38	40	41	43	45	47	49
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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