



GeoMatt TB Range

Needle punched and thermally bonded 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	TB15	TB16	TB21	TB22	TB25	TB26	TB30	TB37	TB40
Tensile Strength - MD	EN ISO 10319	kN/m	17	18	22	25	27	28	31	37	42
Tensile Strength - XD	EN ISO 10319	kN/m	17	18	22	25	27	28	31	37	42
Elongation at break - MD	EN ISO 10319	%	45	45	50	50	50	55	55	55	55
Elongation at break - XD	EN ISO 10319	%	50	50	55	55	55	60	60	60	60
CBR Puncture Resistance	EN ISO 12236	N	2600	2800	3650	3750	4000	4500	5000	5700	6600
Dynamic Cone Drop	EN ISO 13433	mm	20	19	15	14	13	12	10	8	6
Pyramid Puncture	EN ISO 14574	N	170	195	250	280	325	350	485	525	610
HYDRAULIC PROPERTIES	TEST	UNIT	TB15	TB16	TB21	TB22	TB25	TB26	TB30	TB37	TB40
Permeability	EN ISO 11058	m/s. 10 ⁻³	80	80	60	60	50	45	40	35	35
Waterflow normal to plane	EN ISO 11058	l/m2.s	80	80	60	50	50	45	40	35	35
Characteristic Opening Size	EN ISO 12956	µm	80	80	70	70	70	65	65	60	60
PHYSICAL PROPERTIES	TEST	UNIT	TB15	TB16	TB21	TB22	TB25	TB26	TB30	TB37	TB40
Polymer Type	100% Virgin Polypropylene										
Thickness under 2 kPa	EN ISO 9863-1	mm	1.4	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	1.24	1.36	1.57	1.66	1.8	1.92	2.05	2.2	2.35
Mass per Unit Area	EN ISO 9864	g/m ²	180	200	260	280	300	330	360	450	500
Roll Width		m	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Roll Length		m	155	140	120	100	100	75	75	50	50
40' Container Load (+/- 10%)		m ²	49,383	44,604	38,232	28,320	28,320	30,975	28,320	25,223	20,650
Roll Diameter		cm	39	40.5	44	45	45.5	41	43.5	40.5	41
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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