



TECHNICAL DATA SHEET

Revision 05, dd. 16th Apr 2015

GeoMatt TB21

Non-Woven Geotextile manufactured from UV-stabilized polypropylene staple fibres, Needle punched and Thermally Bonded

Suitable for the following applications:

<input checked="" type="checkbox"/>		EN 13249:2000+A1:2005: Characteristics required for use in the construction of roads and other trafficked areas	<input checked="" type="checkbox"/>		EN 13250:2000+A1:2005 : Characteristics required for use in the construction of railways
<input checked="" type="checkbox"/>		EN 13251:2000+A1:2005 : Characteristics required for use in earthworks, foundations and retaining structures	<input checked="" type="checkbox"/>		EN 13252:2000+A1:2005 : Characteristics required for use in drainage systems
<input checked="" type="checkbox"/>		EN 13253:2000+A1:2005 : Characteristics required for use in erosion control works (coastal protection, bank revetments)	<input checked="" type="checkbox"/>		EN 13254:2000+A1:2005 : Characteristics required for use in the construction of reservoirs and dams
<input checked="" type="checkbox"/>		EN 13255:2000+A1:2005 : Characteristics required for use in the construction of canals	<input type="checkbox"/>		EN 13256:2000+A1:2005 : Characteristics required for use in the construction of tunnels and underground structures
<input checked="" type="checkbox"/>		EN 13257:2000+A1:2005 : Characteristics required for use in solid waste disposal	<input checked="" type="checkbox"/>		EN 13265:2000+A1:2005 : Characteristics required for use in liquid waste containment projects

Functions	Separation	Filtration	Protection	Drainage	Reinforcement
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Characteristic	Test Method	Unit		Nominal Value	
Mass per unit area	EN ISO 9864	g/m ²		260	
Thickness	EN ISO 9863-1	mm	2 kPa	1.75	
Wide – Width Tensile Strength	EN ISO 10319	kN/m	MD	22	
			CMD	22	
Elongation	EN ISO 10319	%	MD	50	
			CMD	55	
Static Puncture Resistance	EN ISO 12236	N		3650	
Dynamic Perforation Test	EN ISO 13433	mm		15	
Characteristic Opening Size	EN ISO 12956	µm		70	
Permeability normal to the plane	EN ISO 11058	l/(m ² .s)		60	
Pyramid Puncture Resistance	EN 14574	N		250	
Durability Prediction	To be covered within 1 month after installation. Predicted to be durable for more than 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			
Resistance to Weathering	EN 12224	Retained Strength of ≥ 75% after 50 MJ/m2 exposure			

MD : Machine Direction – CMD : Cross Machine Direction – NR : Not Required for application

TOLERANCE ON ROLL WIDTH: ± 5 cm. TOLERANCE ON ROLL LENGTH: ± 2% IF LENGTH ≤ 200 m. ± 1% IF LENGTH > 200 m.
STANDARD CORES: HDPE. DIAMETER INNER 100mm / OUTER 110mm ± 5%. TOLERANCE ON GROSS/NET WEIGHT ± 10%. TOLERANCE ON MECHANICAL & PHYSICAL SPEC ± 10%.
TOLERANCE ON ELONGATION @ BREAK ± 20%. TOLERANCE ON HYDRAULIC SPECIFICATION ± 30%. TECHNICAL DATA BASED ON STATISTIC ANALYSIS ON 95% CONFIDENCE LIMIT.

Issued	
Date	MDM
16/04/2015	MDM

Verified	
Date	PHG
16/04/2015	PHG

Approved	
Date	MNV
16/04/2015	MNV



Our products are tested on regular basis in our in-house laboratory and on periodical basis by international independent laboratories

Notes:

- Mattex Geosynthetics reserves the right to alter product specifications without prior notice.
- It is the responsibility of all users to satisfy themselves that the above data is current.
- The above figures are average values obtained from testing current EN geotextile test standards. Although, not guaranteed, these results to the best of our knowledge, offer a true & accurate record of products performance.
- We cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
- Installations details & storage guidelines are available on request.
- This document should not be construed as engineering advice.

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Certifying Body:



Das Kunststoff-Zentrum