

JUTAMAT 5000 - Is a Mechanically bonded Geosynthetic Clay Liner (GCL) composite of pulverised bentonite embedded between two layers of geotextile. Additional bentonite is added to the overlap edges for ease of sealing.

JUTAMAT 5000 complies with the latest codes of practice as published in LFE 3 - Using Geosynthetic Clay Liners in Landfill Engineering

JUTAMAT 5000					
Characteristic	Test Method	Unit	JUTAMAT 5000	Tolerance	MQC Frequency
GEOTEXTILE LAYERS					
Carrier Layer (PP Woven) MPUA	EN ISO 9864	g/m ²	115	-10%	1/20,000m ²
Cover Layer (PP Non-woven) MPUA	EN ISO 9864	g/m ²	200	-10%	1/20,000m ²
BENTONITE (Sodium Bentonite) LAYER					
Montmorillonite Content	CUR 33 (VDG 69)	%	>75	n/a	1/batch
Swell Index	ASTM D 5890	ml/2g	≥24	n/a	1/batch
Fluid Loss	ASTM D 5891	ml	<18	n/a	1/batch
Moisture Content	DIN 18121-1	%	<20	n/a	1/5,000m ²
Water Absorbtion	DIN 18132	%	>500	n/a	1/batch
GEOSYNTHETIC CLAY LINER					
Mass per unit area of Bentonite	EN 14196	g/m ²	4700	±10%	1/20,000m ²
Mass per unit area of GCL	EN 14196	g/m ²	5015	±10%	1/2,500m ²
Thickness	EN ISO 9863-1/-2	mm	7.0	±10%	1/2,500m ²
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	12	-10%	1/10,000m ²
Permeability	ASTM D 5887	m/s	≤5.0 X 10 ⁻¹¹	n/a	1/25,000m ²
Index Flux	ASTM D 5887	m ³ /m ² /s	≤5.0 X 10 ⁻⁹	n/a	1/25,000m ²
Grab Tensile Strength	ASTM 4632	N	>400	n/a	1/10,000m ²
CBR puncture Resistance	EN ISO 12236	kN	2.0	-10%	1/50,000m ²
Peel Strength	ASTM D 6496	N/10cm	>60	n/a	1/5,000m ²
ROLL DIMENSIONS					
Roll Width x Length	Typical	m	5.1 X 40	n/a	Every roll
Roll Area	Typical	m ²	204	n/a	Every roll

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Civil
Engineering

HANDLING

Roll weights can be between in excess of 1000kg and hence appropriate care and equipment is required for unloading and handling.

STORAGE

Rolls of JUTAMAT should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.

INSTALLATION

JUTAMAT should be installed in accordance with the product installation guidelines.

ACCESSORY PRODUCTS

Accessory bentonite is provided with each load of JUTAMAT to assist with jointing and sealing. Additional bentonite is available on request.

ADDITIONAL INFORMATION

For additional information or assistance, please contact JUTA UK directly.

 **JUTA**

Contact us to find out more information
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