

Barrier Bento (R)

Functions: Sealing, Lining, Barrier, Containment

E000D (2)

STRUCTURE: Bento Barrier (R) is a factory prehydrated and needle-punched GCL composed of granular natural Sodium bentonite encapsulated between two Polypropylene (PP) nonwoven geotextiles with a reinforced layer of woven geotextile. It is a shear strength transmitting GCL specifically suitable for applications requiring enhanced interface friction.

GEOCOMPOSITE PROPERTIES		5000R ⁽²⁾	
Mass per unit area	g/m²	> 5 000	ASTM D5993
Permeability ⁽³⁾	m/sec	< 2 x 10 ⁻¹¹	ASTM D5084
Index Flux	m ³ /sec-m ²	< 5 x 10 ⁻⁹	ASTM D5887
Grab Strength ⁽⁴⁾	N	> 1 500	ASTM D4632
Elongation at break	%	10	ASTM D6768
CBR Puncture	N	> 2 500	EN ISO 12236
Peel Strength ⁽⁵⁾	N/10cm	> 60	ASTM D6496
Internal Shear Strength ⁽⁵⁾	kPa	> 35	ASTM D6243
Thickness ⁽⁶⁾	mm	6.20	EN ISO 9863-1
BENTONITE PROPERTIES			
Mass per unit area (1)	g/m²	> 4 200	ASTM D5993
Swell Index	ml/2g	> 24	ASTM D5890
Fluid Loss	ml	< 18	ASTM D5891
GEOTEXTILE PROPERTIES		Nonwoven (Polypropylene)	
Mass per unit area	g/m²	180	ASTM D5261
Carrier Layer:	Ċ,	Woven/Nonwoven (Polypropylene)	
Carrier Layer.			
Mass per unit area	g/m²	100/150	ASTM D5261
Mass per unit area	g/m²		ASTM D5261
Mass per unit area	g/m² m		ASTM D5261
Mass per unit area ROLL SIZES Width		100/150	ASTM D5261
	m	100/150 5.0	ASTM D5261

4. Tensile strength and elongation can be reported for EN ISO 10319 and ASTM D6768.

5. Peak values are measured (at 10kPA (200psi) normal stress for shear test).

6. Measured at free hydrated condition.



The information given is this datasheet is to the best of our knowledge true and correct. TeMa SA reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for the design and procurement purposes are current and consistent with the products used in each instance.

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