

Barrier Bento (LT)

Functions: Sealing, Lining, Barrier, Containment

STRUCTURE: Bento Barrier (LT) is a high-performance needle-punched geosynthetic clay liner (GCL) composed of a homogenous layer of granular natural Sodium bentonite encapsulated between high strength UV stabilized virgin Polypropylene (PP) geotextiles.

GEOCOMPOSITE PROPERTI	ES	4500LT ⁽²⁾	5000LT ⁽²⁾	
Mass per unit area	g/m²	>4 500	> 5 000	ASTM D5993
Permeability ⁽³⁾	m/sec	<2 x 10 ⁻¹¹	< 2 x 10 ⁻¹¹	ASTM D5084
Index Flux	m³/sec-m²	<5 x 10 ⁻⁹	< 5 x 10 ⁻⁹	ASTM D5887
Grab Strength (4)	N	>700	> 700	ASTM D4632
Elongation at break	%	10	10	ASTM D6768
CBR Puncture	N	>1 850	> 1 850	EN ISO 12236
Peel Strength (5)	N/10cm	>60	> 60	ASTM D6496
Internal Shear Strength (5)	kPa	>24	> 24	ASTM D6243
Thickness (6)	mm	6.00	6.00	EN ISO 9863-1
Mass per unit area (1) Swell Index Fluid Loss	g/m² ml/2g ml	>4 200 >24 <18	> 4 700 > 24 < 18	ASTM D5993 ASTM D5890 ASTM D5891
GEOTEXTILE PROPERTIES Cover Layer:	1111		olypropylene)	ASTIVI D3691
Mass per unit area:	g/m²	150	150	ASTM D5621
Carrier Layer:	Woven (Polypropylene)			
Mass per unit area:	g/m²	110	110	ASTM D5621
ROLL SIZES				
Width	m	5.0	5.0	
Length	m	48	41	
Roll Weight	kg	1 230	1 230	

1. Minimum value at 12% moisture conten

Loadings / 20'

- 2. Results reported as nominal values with Max. 10% tolerance.
- 3. Permeability is for GBR-C with deaired distilled water at 75psi top cap pressure, 77psi bottom cap pressure, 80psi cell pressure and 140cm of total head.
- Tensile strength and elongation can be reported for EN ISO 10319 and ASTM D6768.
 Peak values are measured (at 10kPA (200psi) normal stress for shear test).

No. rolls

6. Measured at free hydrated condition.



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Tema South Africa (Pty) Ltd