



CETCO Poland sp. z o.o.
 12-100 Szczytno;
 Korpele nr 13A – Strefa
 tel: +48 (89) 6247300
 fax: +48 (89) 6247301
 e-mail: biuro@cetco.pl

ISO 9001
 ISO 14001
 OHSAS 18001
 BUREAU VERITAS
 Certification



1488-CPD-0030

Bentomat is a reinforced GCL consisting of a layer of sodium bentonite between a woven and a nonwoven geotextiles, which are needlepunched together.

BENTOMAT HQ75

MATERIAL PROPERTY	TEST METHOD	REQUIRED VALUES	TEST FREQUENCY
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Geosynthetic Clay Liner

Permeability	ASTM D 5084	$1,5 \times 10^{-11}$ m/s	1/production week ⁽¹⁾
Total mass/unit area ⁽²⁾	EN 14196	4,30kg/m ²	5.000m ²
Bentonite mass/unit area ⁽²⁾	EN 14196	4,00kg/m ²	5.000m ²
Tensile strength MD/CMD	EN ISO 10319	8,0/8,0kN/m	5.000m ²
Elongation MD/CMD	EN ISO 10319	20%typical	5.000m ²
Peel Strength	ASTM D 6496	800N/m	5.000m ²
Thickness	EN 9863-1	6,5 mm typical	5.000m ²
Length	N/A	40m (standard)	Continuous
Width	N/A	5,0m(standard)	Continuous

Bentonite

Free swell	ASTM D 5890	24ml/2g	5.000m ²
Fluid loss	ASTM D 5891	18ml	5.000m ²
Water absorption	DIN 18132	600%	5.000m ²

Geotextiles

Nonwoven	EN 9864	200g/m ²	Certified by supplier
Woven	EN 9864	100g/m ²	Certified by supplier

Notes:

¹ 1/production week – average 75.000m² one type of Bentomat

² Bentonite mass/area reported at 0% moisture content