

# BILIZO® BENTOBIL

## Bentonite Based Geosynthetic Clay Cover

### Ürün Tanımı

BILIZO® BENTOBIL is an 'geosynthetic clay liner' which made of two or more geotextile and bentonite layer, also clay minerals which has excellent swelling properties.

Bentonite absorbs water from the surrounding soil, but expansion is prevented by pressure layer. As a result, it causes the structural member.

BILIZO® BENTOBIL replaces all conventional mineral filler. Better sealing performance, cost efficiency and environmental friendliness are the most important reasons for choosing BENTOBIL.

Properties of Geotextile	Test Method	Unit	Value
Carrier Layer – PP Woven	EN ISO 9864	g/m <sup>2</sup>	100
Cover Layer – PP Nonwoven	EN ISO 9864	g/m <sup>2</sup>	200

Properties of Bentonite	Test Method	Unit	Value
Montmorillonite Content	CUR 33	%	≥75
Swell Index	ASTM D 5890	ml/ 2g	≥24

Properties of GCL	Test Method	Unit	Value
Mass per unit area of bentonite <sup>(1)</sup>	EN 14196	g/m <sup>2</sup>	5000
Mass per unit area of GCL <sup>(1)</sup>	EN 14196	g/m <sup>2</sup>	5000 ( ±10 %)
Thickness	EN ISO 9863-1 /9863-2	mm	6,8 ( ± 1mm)
Index Flux	ASTM D 5887 mod	m <sup>3</sup> /m <sup>2</sup> /s	≤ 5,0 x 10 <sup>-9</sup>
Permeability	ASTM 5887 mod	m /s	≤ 5,0 x 10 <sup>-11</sup>
Tensile Strength MD	EN ISO 10319	kN/m	≥10,0 (-10%)
Tensile Strength CMD	EN ISO 10319	kN /m	≥10,0 (-10%)
CBR Puncture Strength	EN ISO 12236	kN	≥ 1,8 (-10%)
Peel Strength <sup>(2)</sup>	ASTM D 6496	N/10 cm	≥ 60

Standard Roll Dimensions	Test Method	Unit	Value
Width / Length	Typical	m	5,1 x 40 (±1 %)
Quantity	Typical	m <sup>2</sup>	204

(1) at 12% moisture content

(2) at max peak