



Specification Sheet

EnviroFix™ Geosynthetic Clay Liner (GCL)

Standard Grade		unit	X 800	X 1000	X 2000	MQC ¹ Test Frequency (m ²)	Test Method
Geotextile Cover Layer	PP ² nonwoven, white	g/m ²	270	270	270	4 000	ASTM D5261
Geotextile Carrier Layer	PP ² slit film, woven	g/m ²	110	110	110	4 000	ASTM D5261
Bentonite Layer (bentonite mass at 0 % moisture content)	Quality	Montmorillonite content > 75 %, Sodium Cation Na ⁺ > 60 %					
	Sodium Bentonite Powder	g/m ²	3 700	4 000	3 700	2 500	ASTM D5993
	Swell Index	mℓ/2 g	≥ 24	≥ 24	≥ 24	every 30	ASTM D5890
GCL Mass per Unit Area		g/m ²	4 030	4 300	4 350	2 500	ASTM D5993
Bonding Process		Fully Needleponched and Thermally Locked					
Grab Strength	MD	N	400	500	1 000	4 000	ASTM D4632
	XD	N	600	800	2 000		
CBR Burst	Strength	N	1 400	1 600	2 500	20 000	ASTM D6241
	Elongation	%	≥ 15	≥ 15	≥ 50		
Hydraulic Conductivity		m/s	≤ 2.25 x 10 ⁻¹¹	≤ 1.8 x 10 ⁻¹¹	≤ 1.8 x 10 ⁻¹¹	20 000	ASTM D5887
Peel Strength		N/m	> 270	> 270	> 450	4 000	ASTM D6496
Edge Treatment		300 mm self-sealing bentonite longitudinal edge enhancement					
Roll Size (standard)	width x length	m	5.35 x 40	5.35 x 35	5.35 x 35		
	diameter	cm	61	68	68		
	average roll mass	kg	1 040	970	965		

¹ MQC: Manufacturing Quality Control

² PP: Polypropylene

Manufactured by Kaytech to the ISO 9001:2000 Quality Management System Standard

Minimum Average Roll Values (MARV) are reported, unless otherwise stated

MD = Machine Direction XD = Cross Direction

The above results represent laboratory averages and are indicative

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