

# G-GCL™ Range

## Technical Data Sheet

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G-GCL™ GCLs are an established sealing product in the environmental industry. Rolled out like a carpet to provide a durable impermeable liner, geosynthetic clay liners consist of a layer of high swelling sodium benonite, sandwiched between two geotextiles, by different textiles, manufactured GCL, G-GCL, is mechanically bonded by needle-punching from one nonwoven or woven geotextile.

### Physical Properties

Standards	Unit	Specification		
		GCL-NP	GCL-OF	GCL-AH
Mass per unit area	g/m <sup>2</sup>	≥4000 Not less than the specified value	≥4000 Not less than the specified value	≥4000 Not less than the specified value
Swell index [ASTM D 5890]	ml/2g	≥24	≥24	≥24
Blue absorption capacity	g/100g	≥30	≥30	≥30
Max. tensile strength, md/cmd [ASTM D 4632]	N/100mm	≥600	≥700	≥600
Elongation at break, md/cmd	%	≥10	≥10	≥8
Peel strength [ASTM D 4632]	N/100mm	≥40	≥40	≥30
	Nonwoven /woven PEmembrane /nonwoven			
Permeability/Hydraulic Conductivity [ASTM D5887]	m/s	≤5.0×10 <sup>-11</sup>	≤5.0×10 <sup>-12</sup>	≤1.0×10 <sup>-12</sup>
Hydrostatic pressure-resistant		0.4MPa, 1h No infiltration	0.6MPa, 1h No infiltration	0.6MPa, 1h No infiltration
Index Flux	ml	≤18	≤18	≤18
Bentonite wear	ml/2g	≥20	≥20	≥20
Soaked pressure-resistance [ASTM D 5321]		≥24KPa Typical	≥24KPa Typical	≥24KPa Typical

#### 1. Thickness>6 mm, per roll width≤ 6cm, per roll length 30m-50cm.(Or according to customers' demand)

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes.

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