

DK Geosynthetic Clay Liners

Geosynthetic clay liners (GCLs) are often made with two layers of geosynthetics such as geomembrane or geotextile stitched together surrounding a layered natural or processed sodium bentonite.

AT THE CORE:

Our high quality geosynthetic clay liners have the characteristics of self-sealing, easy installation, better hydraulic performance and resistance to varying weather conditions.

Product Specifications

Properties	Unit	Test Method	Frequency	Value
GCL Property				
Bentonite mass per unit area	g/m ²	ASTM D 5993	4000m ²	3600g/m ² MARV
Tensile Strength	kN/m	ASTM D 6768	4000m ²	6kN/m MARV
Peel Strength	N	ASTM D 4632	4000m ²	65N MARV
Hydraulic conductivity	cm/s	ASTM D 5887	periodically	5×10 ⁻² cm/sec MARV
Shear Strength	kPa	ASTM D 6243	periodically	24 kPa Typical
Geotextile Property				
Cap nonwoven geotextile	g/m ²	ASTM D 5261	20,000m ²	200 g/m ² MARV
Cap woven geotextile	g/m ²	ASTM D 5261	20,000m ²	200 g/m ² MARV
Bentonite property				
Swell index	Kg	ASTM D 5890	50,000Kg	24ml/2g MARV
Moisture content	%	ASTM D 4643	50,000Kg	12% max
Fluid loss	ml	ASTM D 5891	50,000Kg	18ml max

Properties	Unit	Test Method	Frequency	Value
Roll Dimensions				
Width*Length	m	Typical	each roll	5.8×30
Area Per Roll	m ²	Typical	each roll	174
Packaged Weight	kg	Typical	each roll	935
20GP loading	roll	Typical	each roll	20

20GP loading Note:

1. variation allowed 2% .
2. GCL Unit weight can be 5000g/m²,5500g/m² 6000g/m².
3. Nonwoven Geotextile can be PP or PET material.

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