

# Shandong Tianhai New Materials Engineering Co., Ltd

## Composite Geomembrane



Shandong Tianhai New Materials Engineering CO., LTD was established in 2002, specializes in the production, R&D, application and construction of new engineering materials.

### 1. Composite Geomembrane Description:

Composite geomembrane is a new type of anti-seepage material made by infrared ray heat with geotextile(PET) and geomembrane (PE .)

Including:

- 1) One layer geotextile and one layer membrane ; Weight of base geotextile : 100g/m<sup>2</sup>-1000g/m<sup>2</sup> ; Thickness of geomembrane :0.1mm-1.5mm .
- 2) Two layers geotextile and one layer membrane ; Weight of base geotextile : 80g/m<sup>2</sup>-600g/m<sup>2</sup> ; Thickness of geomembrane :0.2mm-1.5mm .
- 3) One layer geotextile and two layers membrane ; Weight of base geotextile : 100g/m<sup>2</sup>-1000g/m<sup>2</sup> ; Thickness of geomembrane :0.1mm-0.8mm .
- 4) Multi-layers : Weight of base geotextile : 100g/m<sup>2</sup>-1000g/m<sup>2</sup> ; Thickness of geomembrane :0.1mm-1.5mm .
- 5) Width : 4m-6m
- 6) Length : 50m-100m

## 2. Composite Geomembrane Features:

1. Good physical and mechanic performance.
2. High tearing resistance, strong deformation adaptability.
3. Puncture-resisting, aging resisting, ultra-violet radiation, oil and salt, and corrosion resistance.
4. Good adaptability to high and low temperature, non-toxicity, long service life.
5. Good waterproof, drainage, anti-seepage and damp proof effects.
6. Complete width and thickness specifications, low cost and easy installation.
7. Apply to road construction, river levee, lake dam, sewage dam/ waste water dam, channel, liquid storage pool, metro, basement, tunnel, foundation, waste storage, marifarm/seawater farms, freshwater fish farm, /fishpond / aquatic farm, road, high way, expressway/motorway, railway, roofing, and so on.



## 3. Composite Geomembrane technical index

(Confirming GB/T17642-1998 standard)

Product weight (g/m <sup>2</sup> )		400	500	600	700	800	900	1000
		SPEC	1 layer geotextile+1 layer geomembrane	150/0.25	200/0.3	300/0.3	300/0.4	300/0.5
2 layer geotextile+1 layer geomembrane	100/0.2/100		100/0.3/100	150/0.3/150	200/0.3/200	200/0.4/200	200/0.5/200	200/0.5/250
Breaking strength ,kN/m		5.0	7.5	10.0	12.0	14.0	16.0	18.0
Elongation at break		30---100						
Tear strength , kN		0.15	0.25	0.32	0.40	0.48	0.56	0.62
CBR Mullen burst strength		1.1	1.5	1.9	2.2	2.5	2.8	3.0
Vertical permeability coefficient		k *10-11~k*10-13						
Hydraulic pressure		0.4~0.6			0.6~1.0			

#### 4.Composite Geomembrane applied range:

- 1,Landscape engineering: garage top greening, roof garden, football field, golf course, beach project.
- 2, Municipal engineering: road base, subway, tunnel, landfill.
- 3, Construction engineering : upper or bottom layer of building foundation, basement wall, bedding filtration and heat insulation.
- 4, Traffic engineering: highway, railway basement, dam and slope.



## 5. Other information



Packaging & Shipping  
 The Packaging of HDPE geomembrane woven bag or as customers' requests

Shipping: 7 days after receive the advance payment

## 6. Certification

