



Shandong Obor New Materials Co., Ltd

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Non-woven Geotextile

Basic Details:

Material: PP / PET

Weight / Mass: 100gsm - 1500gsm

Width: 1m- 9m

Length: 50m or 100m/roll

Thickness: 0.9mm-5.0mm

Color: Black , white , grey



Non woven Geotextile Description:

(1). Introduction

Non woven geotextile is made of polypropylene staple fibers on cross-laying equipment and needle punched equipment. It owns the advantages of acid and alkali resistance, erosion resistance, aging resistance, large strength, stable size, good filtrability etc.

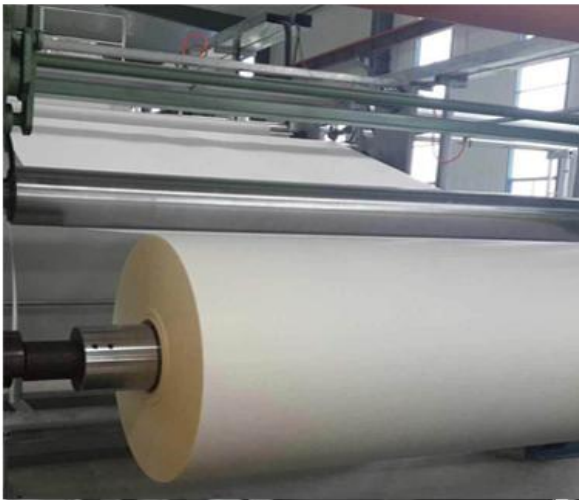


(2).Features:

- 1.High strength: due to the plastic fiber, it can keep sufficient strength and elongation in the wet state.
- 2.Corrosion resistance: it can in different ph value of soil and water corrosion for long.
- 3.Good permeability: have a gap between the fibre, therefore has the good porous.
- 4.Good antimicrobial property: do not damaged by microbes and insects.
- 5.Construction is convenient: because the material is qualitative light, soft, so delivery, laying, construction is convenient.



2.Non woven Geotextile Production



3. PET Nonwoven Geotextile Technical Parameters :

Item	1	2	3	4	5	6	7	8	9	10	11
Unit weight, g/m ²	100	150	200	250	300	350	400	450	500	600	800
Weight tolerance, %	-8	-8	-8	-8	-7	-7	-7	-7	-6	-6	-6
Thickness, ≥mm	0.9	1.3	1.7	2.1	2.4	2.7	3.0	3.3	3.6	4.1	5.0
Break strength, ≥kN/m	2.5	4.5	6.5	8.0	9.5	11.0	12.5	14.0	16.0	19.0	25.0
CBR burst strength, ≥kN	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.2	4.0
Tear strength, ≥kN	0.08	0.12	0.16	0.20	0.24	0.28	0.33	0.38	0.42	0.46	0.60
Width tolerance, %	-0.5										
Break elongation, %	25-100										
EOS O90, mm	0.07-0.2										
Vertical permeability coefficient, cm/s	$K \times (10^{-1} - 10^{-3}) K = 1.0 - 9.9$										



4.Applications:

Major functions: Separation, filtration, drainage, reinforcement, protection, and liquid barrier

1) Filtration

The filtration layer of the dykes, river canal, seacoast, concrete slope, retaining walls. At the same time of preventing the clay granule from passing, it allows the water and the gas pass through freely.

2) Separation:

The isolation of the railway dregs and the roadbed, roadbed and the soft base, surface of the airdrome and parking lot and the groundsill, different dam materials. It isolates the soil and the gravel of two kinds different granule pathway from the groundsill or other buildings.

3)Adding muscle:

The highway, railway, soil-stone dam, breakwater, airport, backfill soil of retaining wall, slope protection, etc in which distributes the earth stress, prevents the side-displacement of the earth body and improves the earth body stability.

4)Protection

It prevents the bank from being washed out, protects the bank and the bottom, prevents the water and soil from being washed away.



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