

## Filament Woven PET Geotextile

### Description

The woven geotextiles are manufactured from extruded polyester (PET) monofilaments interlaced to form a dimensionally stable construction fabric. This process produces a premium filter that is extremely resistant to soil and biological clogging. The continuous filament achieve their strength and dimensional stability. It is offered the functions of filtration, separation, protection, and drainage. The textiles are inert to biological degradation and resistant to chemicals, alkalis, and acids.

### Uses

Used primarily for hard armor underlayment, subsurface drainage, landfill leachate collection, also used in river, coast, harbor, highway, railway, wharf, tunnel, bridge, airports, reservoirs, canals, dams, bank protection, coastal engineering projects, etc.

- ◆ Filtration of soils in drainage applications
- ◆ Separation and reinforcement
- ◆ Prevention of soil movement
- ◆ Cushioning and protection

### Features

- ◆ High strength and elongation, durability, physical and hydraulic properties
- ◆ Superior filtration properties, water permeability, and good friction coefficient
- ◆ Resistance to environmental stress cracking
- ◆ Excellent microbial and corrosion resistance
- ◆ Light-weight, low cost protection for geomembranes
- ◆ Unit area weight: 100-1000g/m<sup>2</sup>



### Specification: GB/T17640-2008

No	Unit area weight, g/m <sup>2</sup>	140	200	260	320	390	460	530	600	680	760	950	Notes
1	Unit area weight deviation, %	-5											
2	Thickness, mm≥	8%											
3	Width deviation, %	-0.1											
4	Break strength, KN/m ≥	35	50	65	80	100	120	140	160	180	200	250	Longitudinal and transverse
5	Elongation at break, %	MD 35, CD 30											
6	CBR bursting strength, KN ≥	2.0	4.0	6.0	8.0	10.5	13.0	15.5	18.0	20.5	23.0	28.0	
7	Equivalent opening size O <sub>90</sub> (O <sub>95</sub> ), mm	0.07-0.50											
8	Vertical seepage coefficient, cm/s	K×(10 <sup>-1</sup> -10 <sup>-3</sup> )											K=1.0-9.9
9	Tear strength, KN≥	0.5	0.8	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	3.0	Longitudinal and transverse
10	Length, m	50.0 or customized											
11	Width, m	1.0 – 6.0											