

# NONWOVEN GEOTEXTILES (POLYPROPYLENE)

- STABILISATION • DRAINAGE • PROTECTION

## Description

Syntex nonwoven polypropylene (PP) geotextiles are made from needle punched polypropylene. Fibres are cut, opened, laid onto a web, needled, inspected, tested and rolled. The production technique produces a product described typically as “a nonwoven needle punched geotextile”.

## Applications

### • Civil

Roadway Stabilisation / Separation: Roads and highways are built using geotextile to prevent aggregate from mixing with the subgrade.

Drainage: Syntex nonwoven geotextiles are ideal for drainage applications. Unlike woven geotextiles (with the exception of monofilament drainage fabrics), polypropylene nonwovens resist clogging. Nonwovens are placed in direct contact with the earth where drainage stone, perforated drain coil, etc. may be placed. The nonwoven filters soil and waste while allowing water and leachate to pass.

### • Environmental

Geomembrane Protection: Syntex heavy weight nonwoven geotextiles will cushion and protect geomembranes from puncture caused by aggregate and basecourse.

Gas Venting: Heavy weight nonwoven geotextiles are used for collection and lateral transmission of liquids and gases that may build up under a geomembrane used in a capping of waste facility.



road stabilisation



separation, stabilisation, drainage



geomembrane protection

- **Hard Armour Underlay**

Syntex nonwoven geotextiles are recommended to help relieve hydrostatic pressure beneath hard armour and prevent soils from migrating to the surface providing an effective erosion control method.

- **Technical**

The Syntex range is manufactured to International Specification and tested by fully accredited laboratories. Properties are produced in both MARV and Typical.

- **Support and Installation**

Permathene can provide designs by our own Geotechnical Engineers. Where specified our installation crews can provide on-site stitching using industry standard methods.



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