



MIRAFI® PET
High tenacity PET basal reinforcement geotextile

Reinforcement Geosynthetics

Geosynthetics

Aerospace Composites

Armour Composites

Protective & Outdoor Fabrics

Industrial Fabrics

Synthetic Grass



High tenacity PET basal reinforcement geotextile for severe soil conditions

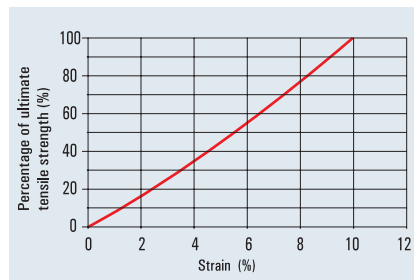
Mirafi® PET

Mirafi® PET geotextiles have been engineered for long term reinforced soil applications. They are manufactured using high tenacity polyester filaments for high tensile strength at low working extensions with minimal creep over the entire design life of up to 120 years.

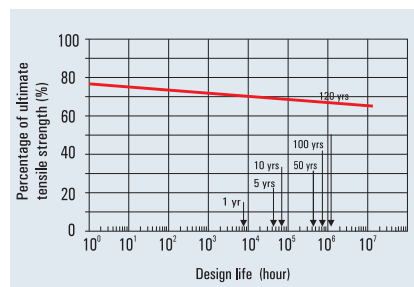
Mirafi® PET geosynthetics are technical fabrics manufactured from high tenacity polyester yarns assembled to form a tough resilient sheet. This special manufacturing process ensures robustness and stability of the yarns during handling and laying operation over severe soil engineering conditions.

Mirafi® PET geosynthetics offer high tensile strength values with low elongation and low creep characteristics suitable for application requiring assured long term performance.

Mirafi® PET is the ideal solution for applications where extremely high tensile reinforcement strength is required. Common application areas include reinforced earth structures over weak subsoil, piled foundations and cavities. The geotextile is also useful in the construction of road and rail embankments, slope stabilization, building and bridge foundations, landfill construction and similar applications where high tenacity reinforcement is required to stabilize the soil.

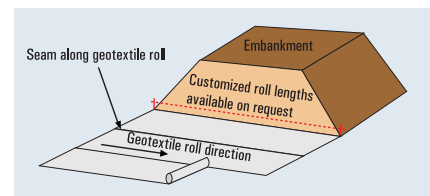


Short term tensile strength-strain master curve for Mirafi® PET geotextiles



Creep rupture curve for Mirafi® PET geotextiles

Reinforcement: Maintain the stability of soil **Separation:** Preventing the intermixing of soft soil



Geotextile roll lengths can be manufactured to suit the embankment base dimension to eliminate waste on site

The benefits

↑

More

- + high permeability
- + high tensile strength
- + high resistance to compression

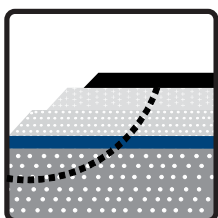
↓

less

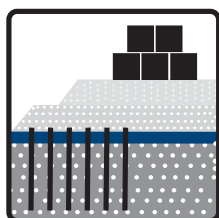
- construction time
- construction cost
- maintenance

Mirafi® PET geotextile is ideal for land reclamation

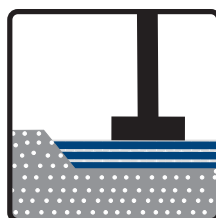
Mirafi® PET geotextile is ideal for reinforcement of embankments over soft and unstable soils



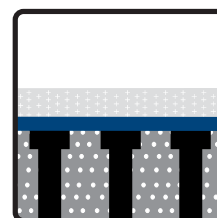
Road embankment over soft soils



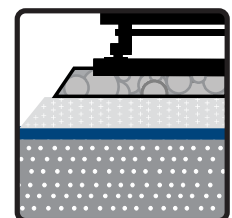
Base reinforcement with and without vertical drains



Foundation over soft soils



Piled foundations



Railway formation over soft soils

Mirafi® is a registered trademark of TenCate.

Further details of this application and products can be obtained by contacting your nearest TenCate Technical Support Office.

Unauthorized reproduction and distribution prohibited. This document is provided as supporting service only. The information contained in this document is to the best of our knowledge true and correct. No warranty whatsoever is expressed or implied or given. Engineers wishing to apply this information shall satisfy themselves on the validity of the input data relative to the applicable soil and engineering conditions and in doing so assume design liability.