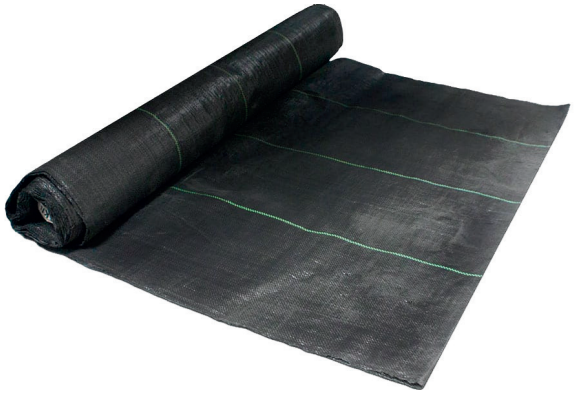

100gsm Woven Geotextile Membrane

4.5 x 100m

Product Code: AS00285

Pack Quantity: 4*

Woven geotextiles are manufactured from high-tenacity polypropylene tapes, interlaced to form a stable and uniform structure. A 100gsm woven geotextile is designed to provide effective separation and load distribution, improving the performance of granular layers over weak or variable subgrades.

100gsm 4.5m x 100m rolls stocked as standard. Additional weights and widths can be specified to suit a variety of projects, from domestic groundworks through to highways and rail.

KEY FEATURES

- Grade: 100gsm
- 4.5m x 100m = 450m² Coverage (supplied on a roll)
- High tensile strength in machine and cross-machine directions (MD/CD) for effective load transfer
- Low elongation, reducing rutting and long-term deformation
- Prevents intermixing of aggregate and subgrade fines, preserving design section performance
- Helps maintain effective bearing capacity and on-site construction efficiency
- Resistant to installation damage and chemical degradation
- UV-stabilised for typical site exposure periods
- Inert to most soil chemistries; rot- and biologically resistant
- Suitable for civils applications over weak or variable subgrades

TYPICAL APPLICATIONS

- Haul roads and working platforms
- Highway and road sub-bases
- Car parks, hardstandings and yards
- Separation beneath stone, ballast and granular fill
- Civil engineering applications over weak or variable subgrades

** Minimum order quantity of 4 rolls*

Interlaced polypropylene tapes form a woven pattern offering high tensile strength.

INTENDED USE

Intended use	Harmonized Technical Specification	Functions
For roads and other trafficked areas	EN 13249:2016	F,S,R
For railways	EN 13250:2016	F,S,R
For earthworks, foundations and retaining structures	EN 13251:2016	F,S,R
For drainage control	EN 13252:2016	F,S
For erosion control works	EN 13253:2016	F,S,R
For reservoirs and dams	EN 13254:2016	F,S,R
For canals	EN 13255:2016	F,S,R
For solid waste disposal	EN 13257:2016	F,S,R
For liquid waste containment	EN 13265:2016	F,R

DECLARED PERFORMANCES

Essential Characteristics	Test Methods	Units	Declared performance (MD/CD)
Tensile Strength	EN ISO 10319	kN/m	21 (-3) / 17 (-3)
Elongation at max load	EN ISO 10319	%	22 (±5) /22 (±5)
Static puncture resistance (CBR test)	EN ISO 12236	N	2150 (-200)
Dynamic perforation resistance (Cone drop test)	EN ISO 13433	mm	15 (+4)
Water Permeability V_{IH50}	EN ISO 11058	l/(m²s)	17 (-5)
Durability	To be Covered with in one month after installation. Predicted to be durable for up to 100 years in natural soils with 4≤pH≤9 and soil temperature ≤25°C and are highly resistant to acid and alkaline environments based on a durability assessment (EN ISO 13438, modified as per the geotextile and geotextile related product, required characteristic standards,2016.28d in water at 80°C followed by 112d in air at 100°C).		
Dangerous substances	Less then required by national regulations in EU member States		

WOVEN VS NON-WOVEN - THE KEY DISTINCTION:

Woven geotextiles are produced from extruded polypropylene tapes, woven into a high-tensile fabric. They are the go-to choice where strength and separation under load are critical - beneath haul roads, working platforms, car parks and hardstandings.

Non-woven geotextiles are needle-punched from continuous polypropylene filaments, creating a felt-like fabric with high water permeability. They excel in filtration, drainage and protection roles - French drains, soakaways, behind retaining structures and over geomembranes.

Property	Woven Geotextile (100gsm)	Non-Woven Geotextile (100gsm)
Primary Function	Reinforcement & separation	Filtration, drainage & separation
Manufacturing Method	Woven polypropylene tapes	Needle-punched polypropylene fibres
Tensile Strength	High (load-bearing applications)	Moderate (not designed for reinforcement)
Elongation	Low	Higher (more flexible)
Permeability	Lower	High

Property	Woven Geotextile (100gsm)	Non-Woven Geotextile (100gsm)
Filtration Performance	Limited	Excellent
Ground Conformity	Moderate	High (follows subgrade profile closely)
Typical Load Capacity	Light to medium loading	Light-duty applications
Durability	High resistance to mechanical stress	High resistance to environmental degradation

CONSIDER IT DONE.
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