ULTRAL NG1 Series

Non Woven Polypropylene Geotextile

ULTRAL NG1 Geotextiles are mechanically bonded continuous filament non woven's from 100% UV stabilized polypropylene. They are characterized by a high resistance to installation damage, high water permeability and increased UV resistance.

Produced from high quality polypropylene fibres ULTRAL NG1 Geotextiles are needle punched to form a strong fabric that retains its dimensional stability and is resistant to damage from construction stresses. ULTRAL NG1 Geotextiles are available in varying strengths and thicknesses to ensure appropriate material selection for your project. Custom roll sizes are also available. Nonwoven geotextiles have a wide range of applications in civil environmental engineering and construction projects. Their uses include:

- Filtration of soils in drainage applications by retaining soil particles while allowing for the free flow of water
- Separation and stabilization in road and railway construction
- Prevention of soil movement in erosion control measures
- Cushioning and protection in many containment projects

CONSTRUCTION

Type of product: mechanically bonded continuous filament nonwoven
Raw material: 100% polypropylene UV-stabilized

APPLICATIONS

Drainage systems can be used in a number of different applications including retaining and foundation walls, playing fields and golf courses, bridge abutments, plaza decks and planters, Green Roofs and venting systems. Effective drainage is a critical element in road and runway construction and rehabilitation.

Road structures can fail prematurely due to lateral displacement and weakening of base course aggregate. Geotextiles are used to enhance performance or reduce the thickness of a permanent road, even when constructed on a reasonably competent foundation.

containment structures such as ponds, lagoons, landfills, tanks and secondary spill containment facilities, including vapour management systems. Because of the wide variety of project conditions and materials being contained and with so many liner types to choose from, the design and selection of the appropriate lining materials can be a complex task.

Mechanically Stabilized Earth (MSE) systems for sites with grade-separation challenges. MSE systems provide designers with a wide range of choices on slope angle and facing elements allowing for the most cost-effective use of land while achieving maximum aesthetic and environmental-value.

Erosion & Sediment Control products are designed to reduce damaging effects of rainfall, run-off, and wave and wind action on soil structures by redirecting water flow or acting as a barrier between the soil surface and water.

PACKING

Std : 3m Width X 100m Length Roll

engineered to perform

ULTRAL NG1 Series Non-Woven Geotextile (PP) SPECIFICATION

Properties	Test Method	NG110	NG113	NG120	NG130	NG140
Mass per Unit Area, g/m2	ASTM D 5261	100	130	200	300	400
Tensile Strength, KN/m	ASTM D 4632	500	580	710	1000	1410
Elongation, %	ASTM D 4632	50	50	50	50	50
Puncture Resistance, N	ASTM D 6241	1200	1340	1950	3150	4114
Tear Strength, N	ASTM D 4533	200	220	290	435	554
Apparent Opening Size Sieve No.mm	ASTM D 4751	0.212	0.212	0.212	0.150	0.150
Permittivity, sec-1	ASTM D 4491	1.90	1.80	1.50	1.00	0.80
Water Flow Rate, l/min/m2	ASTM D 4491	5500	5300	4480	3000	2440
UV Resistance	ASTM D 4355	70	70	70	70	70

Notes:
Thank you for your kind interests in our products, we can offer ULTRAL NG1 Series Geotextile with tensile strength over 1500kN/m. We can customize the product to fulfill different project requirement. If you require more detail information, please feel free to contact us directly at support@organixbs.com We'll be pleased to provide our best assistance.

ORGANIX commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution

engineered to perform

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