

TerraTex® PP Range

Non Woven Needle Punched Polypropylene Geotextile

The TerraTex® PP Non Woven geotextile range is a 100% polypropylene staple filament that is highly needed for the use of a wide range of geotechnical applications including separation, filtration and reinforcement procedures.

TerraTex® PP Non Woven geotextile is manufactured according to ISO 9001 quality standards. The product is wrapped in highly UV stable outer wrap and may be left outside, onsite or for later use provided the wrapper is not removed prior to deployment and use. It is recommended installation occur within a month of delivery

TerraTex® nonwoven geotextiles enhance the performance and design life of granular layers by providing the filtration and separation functions. Typical uses for TerraTex® standard geotextiles include ground stabilisation (between the sub-base and subgrade) around drainage materials and the protection of impermeable liners.

PREVENTING INTERMIXING OF GRANULAR MATERIALS AND SOILS

TerraTex® geotextiles provide an effective solution to the problem of constructing a stable granular layer over soft foundation soils. When stone is placed directly on a soft subgrade, the imposed load often causes intermixing of two layers. This results in contamination of the stone layer and a resulting loss in bearing strength, surface rutting and deformation at the sub-base/subgrade interface.

PREVENTING THE INGRESS OF FINES INTO DRAINAGE MEDIA

Whether it's a granular drain or a Geosynthetic alternative such as an open TerraDrain unit, TerraTex® standard geotextiles are ideal for preventing the ingress of fines.

LANDFILL ENGINEERING

Balancing the cost/quality of the drainage stone with the level of protection that it will demand is part of the engineering process. The TerraTex® geotextile range means that there are grades for use with inexpensive, aggressive stone as well as for expensive, more-rounded alternatives.

COASTAL AND WATERWAYS ENGINEERING

The hydraulic and filtration properties of TerraTex® standard geotextiles makes them highly effective in replacing traditional filter layers. Typically, a single layer of geotextile can replace a succession of stone filter layers. A single bedding layer of stone is laid on the geotextile and this is followed by the rock armour.



Consult Polyfabrics Australasia or a certified Engineer for site specific installation instructions. Polyfabrics Australasia reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

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TerraTex® PP Range

Non Woven Needle Punched Polypropylene Geotextile

SPECIFICATIONS

Non Woven Needle Punched Polypropylene Staple Filament
TerraTex® PP Range is manufactured in accordance to ISO 9001:2008

Feb 2018

Minimum Properties Isotropic	Standard	Unit	Stats	414A	419B	424B	429C	434C	439D	444D	449E	464	900	1200
				Civil & NSW RMS/QLD MRTS Conforming Grades								Coastal & Cushioning Grades		
Wide Strip Tensile Strength	AS3706.2-12	kN/m	MARV	10.3	12.5	14	16.5	19	23	26.5	36	44	52	75
Wide Strip Toughness	AS3706.2-12	kJ/m2	Mean	3.1	3.5	4	5	6	9	11	14.8	15.5	16.2	29.4
Trapezoidal Tear Strength	AS3706.3-12	N	MARV	240	300	345	385	450	600	650	800	900	1150	1490
CBR Burst Strength	AS3706.4-12	N	MARV	1750	2500	2600	2850	3400	4100	4650	6200	7500	8300	9000
G Rating	Austrroads	-	MARV	1500	2250	2450	2500	2700	3900	4000	7000	8000	9000	17000
Grab Tensile Strength	AS3706.2-12	N	MARV	600	800	850	1100	1210	1590	1850	2490	2800	3050	4200
Flow Rate @ 100mm head	AS3706.9	L/m2/s	Mean	>240	>220	>180	>150	>130	>115	>100	>80	>80	>75	>40
Pore Size (095)	AS3706.7	Micron	Mean	<120	<120	<90	<90	<90	<75	<75	<75	<75	<75	<75
UV Resistance	ASTM D4355	%	Mean	70	70	70	70	70	70	70	70	80	80	80

Please Note:

The specification is compiled from MQA testing. To ensure this is current, contact Polyfabrics Australasia Pty. Ltd

MD = Machine Direction; CD = Cross Machine Direction;

Typical Values = Arithmetic Mean (50% will exceed value & 50% will not); MARV = Minimum Average Roll Value (Typical less 2 standard deviations or 97.5% will exceed this value)

TerraStop® is a registered trademark of Polyfabrics Australasia Pty Ltd. The information contained herein is to the best of our knowledge accurate.

As part of our continual improvement. Polyfabrics Australasia Pty Ltd reserve the right to amend the properties in this data sheet without prior notice.

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