

Wallbarn - Technical Datasheet Geotextile PPT

Recycled nonwoven geotextile made with polypropylene for filtration, separation, protection and drainage.

Physical Properties			150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Mass per unit area [EN ISO 9864]	g/m ²		150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Thickness [EN ISO 9863-1]	mm		1.2	1.6	1.8	2.0	2.2	2.5	3.0	3.5	3.8	4.0	5.0	5.5	7.5
Mechanical properties			150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Tensile strength [EN ISO 10319]	MD	kN/m	2.0	2.5	4.0	5.0	6.0	7.0	9.0	12	14	16	20	21	24
	CMD	kN/m	2.5	3.0	4.5	6.0	7.0	8.0	10.0	13	15	17	22	24	30
Elongation at max.load [EN ISO 10319]	MD	%	70	70	70	70	70	70	80	80	80	80	80	80	80
	CMD	%	70	70	70	70	70	70	80	80	80	80	80	80	80
Energy absorption index [EN ISO 10318]	kJ/m ²		0.8	1.0	1.5	1.9	2.3	2.6	3.8	5	5.8	6.6	8.4	9	10.8
Static puncture resistance [EN ISO 12236]	kN		0.3	0.5	0.8	1.0	1.2	1.4	1.8	2.2	2.5	3.0	4.0	5.0	6.5
Dynamic puncture resistance [EN ISO 13433]	mm		>50	40	30	26	22	18	10	6	4	2	1	1	0
Pyramidal puncture resistance [EN 14574]	N		-	100	150	200	220	240	280	400	500	600	800	1000	1500
Hydraulic Properties			150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Permeability normal to the plane [EN ISO 11058]	mm/s		80	60	60	50	50	40	30	30	30	20	110	10	10
In-plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms		1.6	2.1	2.3	2.7	2.7	3.2	5.0	7.8	8	8.5	9	9	9
Characteristic opening size [EN ISO 12956]	µm		100	90	90	80	80	70	60	50	50	40	40	40	40

µm = Micrometre

mm/s = Millimetre per second

kJ/m² = Kilojoule per square metre

MD = Machine Direction/Longitudinal

kg/dm³ = Kilogram per cubic decimetre

kN = Kilonewton

mm = Millimetre

g/m² = Gram per square metre

kN/m = Kilonewton per metre

⁻³l/ms = Cubic metre per millisecond

CMD = Cross Machine Direction/Trasversal

The values given are an average obtained in internal labs and official independent testing institutes. The right is reserved to make changes any time without notice.

Wallbarn Ltd

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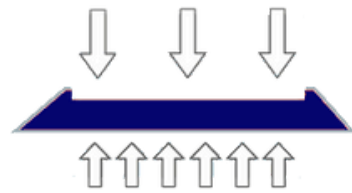
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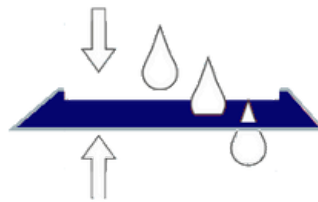
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MAIN FUNCTIONS



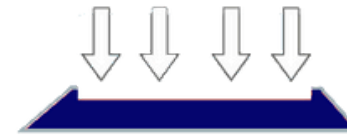
SEPARATION

Separation & retaining of soil and/or filling materials to stabilise groundworks



FILTRATION

Retaining soil or other particles while allowing the passage of moisture



PROTECTION

Preventing compression or puncture damage to delicate membranes beneath

Wallbarn PPT Geotextile is a nonwoven, recycled polypropylene material. This is a stronger, more durable fabric than the recycled polyester. PPT Geotextile is ideal as a protection, filtration & separation membrane for roofing - including inverted waterproofing systems - Civils - tunnels - landfills and green roof applications.

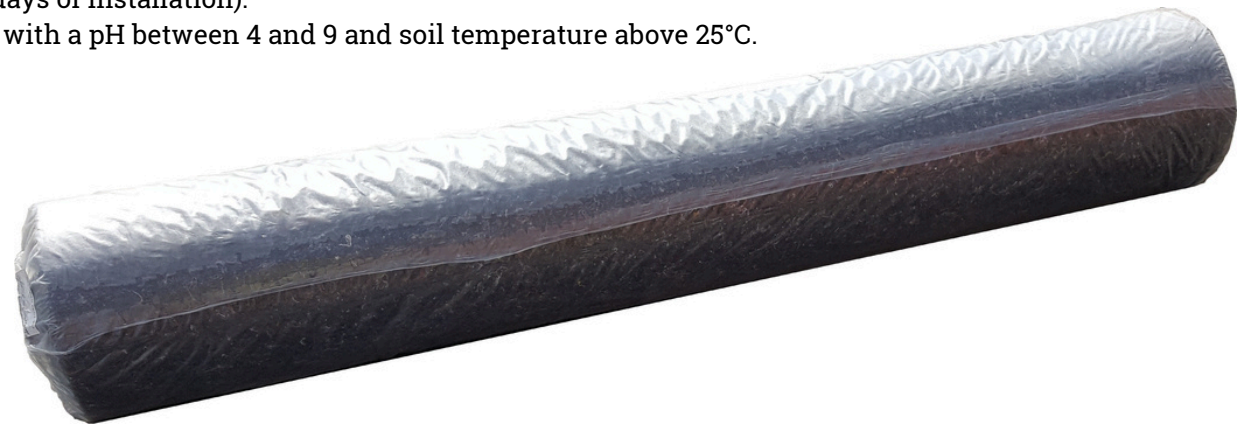
Made from multi-coloured fibres resulting from the recycling process, it promotes sustainable construction.

Key benefits:

- Made from recycled Polypropylene material.
- Ideal for green roofing - Meets GRO Code
- High performance material with a cost saving.
- Can be exposed to sunlight (Must be covered within 15 days of installation).
- Durability forecast: minimum 5 years in natural ground with a pH between 4 and 9 and soil temperature above 25°C.
- Manufactured **without glues or chemical binders.**

Specification:

Polymer: Polypropylene
Specific weight: 0.91 kg/dm³
Raw material: Staple fibres
Process: Needle-punched and calandered.
Colour: Multi-coloured



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Roofing & Green Roofing

