



## Wallbarn - Technical Datasheet Geotextile PPEXT

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

Mechanical properties			100	120	150	200	250	300	400	500	600	800	1000	1200	1500
Tensile strength [EN ISO 10319]	MD	kN/m	2.0	2.7	3.5	4.5	6	9	10	12	18	24	30	35	40
	CMD	kN/m	2.5	3.2	4.0	5.5	8	11	14	18	22	32	40	45	50
Elongation at max.load [EN ISO 10319]	MD	%	70	07	70	70	80	80	80	80	80	90	90	95	95
	CMD	%	80	80	80	80	85	85	85	90	90	100	100	100	100
Energy absorption index [EN ISO 10318]		$\text{kJ/m}^2$	0.8	1.1	1.4	1.9	2.9	4.1	5.0	6.4	8.5	13.3	16.6	19.5	21.9
Static puncture resistance [EN ISO 12236]		kN	0.4	0.5	0.8	0.9	1.3	1.5	1.8	2.5	3.6	4.8	6.0	8.0	10
Dynamic puncture resistance [EN ISO 13433]		mm	>50	>50	36	28	22	18	14	10	6	2	1	0	0
Pyramidal puncture resistance [EN 14574]		N	-	-	-	150	200	300	340	400	500	700	1100	1400	1600

Hydraulic Properties			100	120	150	200	250	300	400	500	600	800	1000	1200	1500
Permeability normal to the plane [EN ISO 11058]		mm/s	110	100	80	70	50	35	25	20	20	20	20	20	20
In-plane flow capacity [EN ISO 12958]		$10^{-3}\text{l/ms}$	0.6	0.8	1.2	1.8	2.0	2.2	2.6	3.5	4.5	5.3	6.0	6.3	7.0
Characteristic opening size [EN ISO 12956]		$\mu\text{m}$	90	90	80	70	60	55	50	50	45	45	40	40	40

Physical Properties			100	120	150	200	250	300	400	500	600	800	1000	1200	1500
Mass per unit area [EN ISO 9864]		$\text{g/m}^2$	100	120	150	200	250	300	400	500	600	800	1000	1200	1500
Thickness [EN ISO 9863-1]		mm	0.7	0.8	1.1	1.4	1.6	1.9	2.5	3.3	4.0	4.8	5.5	7.0	8.0

$\mu\text{m}$  = Micrometre

mm/s = Millimetre per second

$\text{kJ/m}^2$  = Kilojoule per square metre

MD = Machine Direction/Longitudinal

$\text{kg/dm}^3$  = Kilogram per cubic decimetre

kN = Kilonewton

mm = Millimetre

$\text{g/m}^2$  = Gram per square metre

kN/m = Kilonewton per metre

$^{-3}\text{l/ms}$  = 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

Unit 16 Capital Business Centre

22 Carlton Road, South Croydon. CR2 0BS

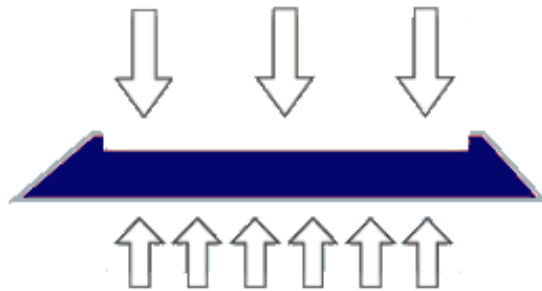
Phone : 0208 916 2222 Email : sales@wallbarn.com Website : [www.wallbarn.com](http://www.wallbarn.com)

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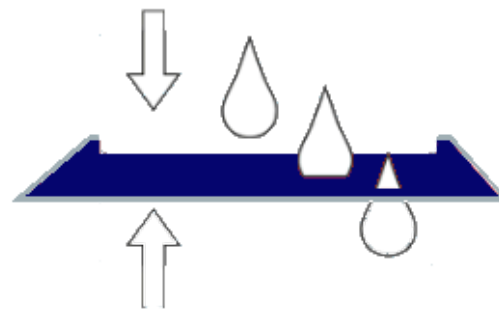
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### MAIN FUNCTIONS



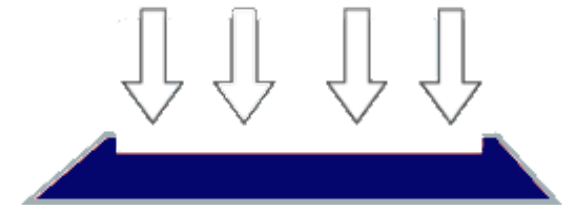
#### SEPARATION

**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 PPEXT is needle punched and calandered.

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Phone : 0208 916 2222 Email : [sales@wallbarn.com](mailto:sales@wallbarn.com) Website : [www.wallbarn.com](http://www.wallbarn.com)

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## Wallbarn - Technical Datasheet



**Roads, Railways &  
Heavy Traffic Areas**

**Landfill for Solid &  
Liquid Waste**

**Roofing**



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