Polydren PL

Needle-punched nonwoven geotextile designed for drainage

POLYDREN PL is a needle-punched polyester nonwoven geotextile designed for the drainage of roof gardens and for use as a separating layer in building applications.

INTENDED USES

Needle-punched polyester nonwoven geotextile for the drainage of roof gardens and for use as a separating layer in building applications.

INSTALLATION TIPS

POLYDREN PL is laid loose, laying out the rolls so that they line up perfectly and with the filter fabric overlapping.
When installing on vertical surfaces, you will need to use suitable mechanical fixing.
For further details on application, please contact the Polyglass SpA Technical Support Department.

Polydren PL

TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES				
			POLYDREN PL 200	POLYDREN PL 300	POLYDREN PL 400	POLYDREN PL 500	POLYDREN PL 600
EN ISO 9864	MASS PER UNIT AREA	g/m^2	200	300	400	500	600
EN ISO 9863-1	THICKNESS AT 2 kPa	mm	2,1	2,6	2,9	3,6	4,3
EN ISO 10319	TENSILE STRENGTH	kN/m	CMD 2,0 (-0,3) MD 1,5 (-0,2)	CMD 3,0 (-0,5) MD 2,0 (-0,3)	CMD 4,0 (-0,6) MD 3,0 (-0,5)	CMD 5,5 (-0,5) MD 4,0 (-0,5)	CMD 6,0 (-0,9) MD 4,2 (-0,6)
EN ISO 10319	ELONGATION AT MAX. LOAD	%	CMD 100 (±25) MD 100 (±25)	CMD 100 (±25) MD 100 (±25)	CMD 100 (±25) MD 100 (±25)	CMD 100 (±25) MD 100 (±25)	CMD 100 (±25) MD 100 (±25)
EN ISO 10318	ENERGY ABSORPTION	kJ/m^2	CMD 1,0 MD 0,8	CMD 1,5 MD 1,0	CMD 2,0 MD 1,5	CMD 2,8 MD 2,0	CMD 3,0 MD 2,1
EN ISO 12236	STATIC PUNCTURE RESISTANCE (CBR)	N	240 (-40)	450 (-70)	590 (-50)	750 (-75)	850 (-85)
EN ISO 13433	DYNAMIC PERFORATION (CONE DROP)	mm	35,0 (5,0)	21,0 (4,0)	15,0 (3,5)	10,0 (3,0)	6,0 (2,0)
EN ISO 14574	PYRAMID PUNCTURE RESISTANCE	N	-	-	300 (-30)	400 (-40)	510 (-51)
EN ISO 12956	CHARACTERISTIC OPENING SIZE O90	µm	100 (±20)	80 (±20)	75 (±20)	70 (±20)	70 (±20)
EN ISO 11058	PERMEABILITY NORMAL TO THE PLANE (h=50 mm)	$l/(m^2.s)$	80 (-24)	65 (-20)	54 (-20)	44 (-15)	40 (-13)
EN ISO 12958	IN-PLANE WATER FLOW CAPACITY (20 kPa, i=1)	$*10^{-6}$ m^2/s	3.8 (-1.4)	5.5 (-1.9)	6.5 (-2.3)	7.0 (-2.4)	8.0 (-2.9)
EN 12224	RESISTANCE TO WEATHERING	-	Vedi nota*	Vedi nota*	Vedi nota*	Vedi nota*	Vedi nota*
EN ISO 12958	RESISTANCE TO OXIDATION		Predicted to be durable for a minimum of 5 years in soils with 4<pH<9 and soil temperature < 25 °C	Predicted to be durable for a minimum of 5 years in soils with 4<pH<9 and soil temperature < 25 °C	Predicted to be durable for a minimum of 5 years in soils with 4<pH<9 and soil temperature < 25 °C	Predicted to be durable for a minimum of 5 years in soils with 4<pH<9 and soil temperature < 25 °C	Predicted to be durable for a minimum of 5 years in soils with 4<pH<9 and soil temperature < 25 °C
-	DANGEROUS SUBSTANCES		Below EU member state national standard levels	Below EU member state national standard levels	Below EU member state national standard levels	Below EU member state national standard levels	Below EU member state national standard levels

** The material should be covered the same day it is installed*
MD= machine direction; CMD= cross-machine direction.

PACKAGING

Roll length 50 or 100 m.
Roll height 1-2-3-4-5-6 m.

STORAGE

Shelf life of product in correctly sealed container, kept in a dry place, out of direct sunlight: 12 months; the date of manufacture is given on the label.

SAFETY RULES

See safety data sheet.

LEGAL RULES

The values given are approximate average data relating to the current product range and may be edited or updated by Polyglass SpA at any time without any prior notice. As the Customer or User, it is your responsibility to check that the technical data sheet you have is valid for the batch of product in question and, whatever the case, that you have the latest version issued.
Always refer to the latest up-to-date version of the Technical Data Sheet and relevant Declaration of Performance, both of which you can find on our site www.polyglass.com. As the End User, it is your responsibility to check that the product is fit for its intended purpose.

PRODUCT FOR PROFESSIONAL USE

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