

# Polystuoia 20 - Polystuoia 20 L

Drainage geocomposites for construction



**POLYSTUOIA 20** and **POLYSTUOIA 20 L** are geocomposites comprising two UV-stabilized, needle-punched polypropylene staple-fibre filter geotextiles with a 3-dimensional drainage structure sandwiched between them made up of polypropylene monofilaments.

The **POLYSTUOIA 20** and **POLYSTUOIA 20 L** drainage core's high void ratio is effective in draining away water, while the properties of the polypropylene textiles successfully separate the soil from the drainage structure and filter the water inside.

## Certifications

**CE** PRODUCT COMPLIANT  
WITH EUROPEAN STANDARD  
EN 13252

## INTENDED USES

**POLYSTUOIA 20** and **POLYSTUOIA 20 L** are products with drainage properties that can be used either horizontally or vertically; the products can be employed in the construction of foundations, roof gardens, tunnels and man-made reservoirs. They also act as a protective layer when laid over synthetic waterproofing membranes and polymer bitumen membranes.

## INSTALLATION TIPS

**POLYSTUOIA 20** and **POLYSTUOIA 20 L** are products that are laid loose, laying out the rolls so that they line up perfectly with the selvedge on the filter geotextile overlapping. When installing on vertical surfaces, you will need to use suitable mechanical fixing.

REV. 1-24

# Polystuoia 20 - Polystuoia 20 L

## TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES	
			POLYSTUOIA 20	POLYSTUOIA 20 L
-	WIDTH	m	2 (±3%)	2 (±3%)
-	LENGTH	m	20 (±2%)	20 (±2%)
-	MATERIAL	-	Polypropylene	Polipropilene
EN 9864	TOTAL WEIGHT	g/m <sup>2</sup>	850 (±15%)	700 (±15%)
EN 9863-1	THICKNESS AT 2 kPa	mm	20 (±20%)	20 (±20%)
EN 9864	GEOTEXTILE WEIGHT	g/m <sup>2</sup>	100 (±15%)	100 (±15%)
EN 10319	TENSILE STRENGTH MD/CMD	kN/m	13/13 (-2)	13/13 (-2)
EN 10319	ELONGATION AT MAX. LOAD MD/CMD	%	80/80 (±25)	80/80 (±25)
EN 12958	HORIZONTAL TESTED FLOW CAPACITY (Soft/Hard; 20 kPa; i=0.04)	l/m-s	0,85 (-20%)	0,5 (-20%)
EN 12958	VERTICAL TESTED FLOW CAPACITY (Soft/Hard; 20 kPa; i=1)	l/m-s	4 (-20%)	3,3 (-20%)
EN ISO 13438	RESISTANCE TO OXIDATION	-	Predicted to be durable for a minimum of 25 years in natural soils with 4<pH<9 and soil temperature <25 °C.	Predicted to be durable for a minimum of 25 years in natural soils with 4<pH<9 and soil temperature <25 °C.
EN 12224	RESISTANCE TO AGEING	-	The geocomposite must be covered within 14 days of installation.	The geocomposite must be covered within 14 days of installation.

MD= machine direction; CMD= cross-machine direction.

## PACKAGING

40 m<sup>2</sup> rolls.  
4 rolls per pallet.

## SAFETY RULES

**POLYSTUOIA 20** and **POLYSTUOIA 20 L** are articles and referring to the current European regulations (REG. 1906/2007 / CEE-REACH) do not require the preparation of the 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](http://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



POLYGLASS SPA

Registered Office: V.le E. Jenner, 4 - 20159 Milano - Italy - Administrative Headquarters and Production Facility: Via Giorgio Squinzi, 2 - 31047 Ponte di Piave (TV) - Italy  
Phone +39 04227547 - Fax +39 0422854118 - Email: [info@polyglass.it](mailto:info@polyglass.it) - [www.polyglass.com](http://www.polyglass.com)

REV. 1-24