

Nonwoven geotextile made of polyester for filtration, separation and protection

PRODUCT

Nonwoven geotextile made of polyester, needle-punched and calandered, produced to provide the following properties.

Geotextile white PET acts as a sand filter by allowing water to move through the soil while retaining all upstream soil particles. **Geotextile white PET** acts to separate 2 layers of soil that have different particle size distributions. **Geotextile white PET**, acts as anti-puncturing protection and preventing local damage on exposed waterproofing membranes.

CHARACTERISTICS

Polymer	Polyester
Specific weight	1.38 kg / dm ³
Raw material	Staple fibers
Process	Needle punching and calendering
Color	Raw white



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
Roll	Roll	Roll	Roll	Roll	Roll	Roll	Roll

Physical Properties		Unit	120	150	200	250	300	350	400	500	600	800	1000	1200	1500
Mass per unit area (EN ISO 9864)		g/ m²	120	150	200	250	300	350	400	500	600	800	1000	1200	1500
Thickness (EN ISO 9863-1) - 2 kPa		mm	0.7	0.9	1.1	1.3	1.6	1.75	1.9	2.2	2.8	3.5	4	4.5	6
Mechanical Properties															
Tensile strength (EN ISO 10319)	MD	K N/m	0.6	1.2	1.8	2	2.5	2.8	3.2	4.2	5.5	6.5	7.5	13	20
	CMD	K N/m	0.7	1.2	1.8	2	2.7	3.2	4	5.2	7.5	9	10.5	16	25
Elongation at max load (EN ISO 10319)	MD	%	50	50	50	50	50	50	50	60	70	80	80	80	80
	CMD	%	60	60	60	60	60	60	60	70	80	90	90	90	90
Energy absorption index (EN ISO 10318)		Kj/m²	0.2	0.3	0.5	0.6	0.7	0.8	1	1.5	2.4	3.3	3.8	6.2	9.6
Static puncture resistance (EN ISO 12236)		kN	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.2	1.8	2.2	2.8	4
Dynamic puncture resistance (EN ISO 13433)		Mm	>50	>50	>50	45	40	30	20	16	6	2	0	0	0
Pyramidal puncture r esistance (EN ISO 14574)		N	20	-	-	-	100	150	180	200	250	300	500	700	800
Hydraulic Properties															
Permeability normal to the plane (EN ISO 11058)		mm/s	120	110	100	80	60	50	40	30	25	20	20	20	20
In-plane flow capacity (EN ISO 12958)		10 ⁻³ l/ms	0.8	1.6	2.1	2.3	2.7	3	3.2	5	7	8	9	9	9
Characteristic opening size (EN ISO 12956)		µm	65	65	60	55	55	55	45	45	35	35	30	30	30

SCOPE OF USE

- Roads
- Railways
- Retaining wall
- Drainage system
- Erosion control system
- Basins and dams
- Canals
- Tunnels

APPLICABLE STANDARDS

Geotextile white PET fulfills the requirements of the European directive related to the construction products.

DURABILITY PROPERTIES

Geotextile white PET have to be covered within 1 day from the installation. The material can be exposed to sunlight but the degradation of mechanical properties depending on the season and on the latitude. The durability forecast is for minimum 5 years in natural ground with a $4 < \text{pH} < 9$ and soil temperature $> 25^{\circ}\text{C}$.

DISCLAIMER

This information is given according to our experience and our responsibility can only be engaged in this respect. The manufacturer shall have the right to modify the data without previous notice and denies all responsibility in case the product is used improperly. This data sheet supersedes all previous literature and all products should be used in accordance with the manufacturer's instructions.

NOTE

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