

Nonwoven geotextile made of high tenacity polypropylene for filtration, separation, protection and drainage

PRODUCT

Nonwoven geotextile made of high quality white polypropylene staples, UV stabilized, needlepunched and calandered, produced without using of any glues or chemical binders and post-consumer raw material.

Geotextile white PP provides the following properties:

- **Geotextile white PP** acts as a sand filter by allowing water to move through the soil while retaining all upstream soil particles.
- **Geotextile white PP** acts to separate two layers of soil that have different particle size distributions.
- **Geotextile white PP** acts to preventing or limiting local damage on material, element or other geosynthetic.
- **Geotextile white PP** acts as a drain to carry fluid flows through less permeable soils.



PACKAGING

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

Physical Properties		Unit	125	200	250	300	400	500	600	700	800	1000	1200	1500	2000
Mass per unit area (EN ISO 9864)		g/ m²	125	200	250	300	400	500	600	700	800	1000	1200	1500	2000
Thickness (EN ISO 9863-1)		mm	0.85	1.30	1.50	1.60	2.50	3.00	4.00	5.00	5.50	6.50	7.00	7.50	10.0
Mechanical Properties															
Tensile strength (EN ISO 10319)	MD	K N/m	9.5	16	20	25	30	35	40	45	50	60	70	85	75
	CMD	K N/m	9.5	16	20	25	34	40	50	65	80	90	105	140	155
Elongation at max load (EN ISO 10319)	MD	%	55	60	65	65	70	80	80	80	80	80	80	80	80
	CMD	%	60	65	70	70	70	80	80	80	80	80	80	80	80
Energy absorption index (EN ISO 10318)		Kj/m²	2.7	5.0	6.8	8.4	11.2	15.0	18.0	22.0	26.0	30.0	35.0	45.0	46
Static puncture resistance (EN ISO 12236)		kN	1.6	2.5	3.0	4.0	5.5	6.5	8.0	9.0	10.0	13.0	14.0	18.0	20.0
Dynamic puncture resistance (EN ISO 13433)		Mm	32	20	14	10	6	4	2	1	0	0	0	0	0
Pyramidal puncture resistance (EN ISO 14574)		N	-	200	280	330	350	500	700	900	1000	1300	1600	2200	2200
Hydraulic Properties															
Permeability normal to the plane (EN ISO 11058)		mm/s	110	90	75	65	35	30	25	20	20	15	15	15	5
In-plane flow capacity (EN ISO 12958)		10 ⁻³ l/ms	0.8	2.1	2.3	2.5	3.2	5.0	7.8	8.0	8.5	9.0	9.0	9.0	7
Characteristic opening size (EN ISO 12956)		µm	100	80	60	50	50	50	50	50	40	40	40	40	20

CHARACTERISTICS

Polymer	Polypropylene
Specific weight	1.38 kg / dm ³
Raw material	Staple fibers
Process	Needle punching and calendering
Color	Raw white
Melting Point	165-175°C
Fiber Diameter	25 - 30 µm

SCOPE OF USE

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

APPLICABLE STANDARDS

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

DURABILITY PROPERTIES

Geotextile white PP safely passes the weathering test according to EN 12224: it is highly recommended to cover the geotextile within 30 days from the installation; the material can be exposed to sunlight for a maximum of 4 months with a degradation of the mechanical properties depending on the season and on the latitude. The durability forecast is for minimum 25 years in natural ground with a 4<pH<9 and soil temperature < 25 °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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