

REC GEO TEXTILE PP

NONWOVEN GEOTEXTILE MADE OF HIGH-TENACITY POLYPROPYLENE FOR FILTRATION, SEPARATION, PROTECTION, AND DRAINAGE

PRODUCT

REC GEO TEXTILE PP is a nonwoven geotextile made from high-quality, white polypropylene staple fibers. It is UV-stabilized, needle-punched, and calendared. It is produced without the use of glues or chemical binders and without post-consumer raw materials.

REC GEO TEXTILE PP provides the following functions:

- **Filtration:** **REC GEO TEXTILE PP** acts as a sand filter by allowing water to move through the soil while retaining upstream soil particles.
- **Separation:** **REC GEO TEXTILE PP** separates two layers of soil having different particle-size distributions.
- **Protection:** **REC GEO TEXTILE PP** prevents or limits local damage to materials, elements, or other geosynthetics.
- **Drainage:** **REC GEO TEXTILE PP** acts as a drainage layer to carry fluid flows through less-permeable soils.

PHYSICAL PROPERTIES

Property	Unit	125	200	250	300	400	500	600	700	800	1000	1200	1500	2000
Mass per Unit Area (EN ISO 9864)	g/m ²	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

Property	Unit	125	200	250	300	400	500	600	700	800	1000	1200	1500	2000
Tensile Strength – MD (EN ISO 10319)	kN/m	9.5	16	20	25	30	35	40	45	50	60	70	75	75
Tensile Strength – CMD (EN ISO 10319)	kN/m	9.5	16	20	25	34	40	50	65	80	90	105	140	155
Elongation at Maximum Load – MD (EN ISO 10319)	%	55	60	65	65	65	70	80	80	80	80	80	80	80
Elongation at Maximum Load – CMD (EN ISO 10319)	%	60	65	70	70	70	70	80	80	80	80	80	80	80
Energy Absorption Index (EN ISO 10318)	kJ/m ²	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

Property	Unit	125	200	250	300	400	500	600	700	800	1000	1200	1500	2000
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

GENERAL CHARACTERISTICS

Polymer	Polypropylene
Specific Weight	1.38 kg/dm ³
Raw Material	Staple fibers
Manufacturing Process	Needle punching and calendaring
Color	Raw white
Melting Point	165–175°C
Fiber Diameter	25–30 µm

SCOPE OF USE

REC GEO TEXTILE PP is suitable for use in:

- Roads.
- Railways.
- Retaining walls.
- Drainage systems.
- Erosion control systems.
- Basins and dams.
- Canals.
- Tunnels.
- Landfills.

APPLICABLE STANDARDS

REC GEO TEXTILE PP fulfils the requirements of the applicable European directives related to construction products.

DURABILITY PROPERTIES

REC GEO TEXTILE PP safely passes the weathering test according to EN 12224. It is highly recommended to cover the geotextile within 30 days of installation. The material can be exposed to sunlight for a maximum of 4 months, with degradation of mechanical properties depending on the season and latitude. The durability forecast is a minimum of 25 years in natural ground with a pH between 4 and 9 and a soil temperature below 25°C.

SHELF LIFE & STORAGE

Shelf life is one year from the date of manufacture when stored in tightly closed original containers. Store in a cool, dry and well-ventilated area, protected from extreme temperatures, direct sunlight, and sources of heat. Keep containers tightly sealed when not in use.

SAFETY PRECAUTIONS

Avoid contact with skin and eyes and do not inhale vapors or spray mist. Wear suitable gloves, eye protection, and protective clothing during mixing and application. Use in a well-ventilated area.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the head office of RECKON CHEMICALS PVT LTD. located in Lahore.

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