

Geodren® PPST



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

Rev.002

Mechanical properties			70	90	100	110	120	130	150	180	200	230	250	280	300
Tensile strength [EN ISO 10319]	MD	kN/m	3.2	6	7	8	9	10	12	14	16	18	20	23	25
	CMD	kN/m	3.5	6	7	8	9	10	12	14	16	18	20	23	25
Elongation at max load [EN ISO 10319]	MD	%	55	55	55	55	55	55	55	60	60	65	65	65	65
	CMD	%	60	60	60	60	60	60	60	65	65	70	70	70	70
Energy absorption index [EN ISO 10318]		kJ/m ²	1.0	1.7	2.0	2.3	2.6	2.9	3.5	4.4	5.0	6.1	6.8	7.8	8.4
Static puncture resistance [EN ISO 12236]		kN	0.7	0.9	1.2	1.3	1.5	1.7	1.9	2.2	2.4	2.7	3.0	3.5	4.0
Dynamic puncture resistance [EN ISO 13433]		mm	>50	44	38	34	32	30	26	22	20	16	14	12	10
Pyramidal puncture resistance [EN 14574]		N	-	-	-	-	-	-	-	-	200	220	280	320	330
Hydraulic properties															
Permeability normal to the plane [EN ISO 11058]		mm/s	130	130	125	120	115	110	100	95	90	80	75	70	65
In-plane flow capacity [EN ISO 12958]		10 ⁻³ l/s	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.1	2.1	2.3	2.3	2.5
Characteristic opening size [EN ISO 12956]		µm	120	120	120	110	110	100	90	90	80	70	60	50	50
Physical properties															
Mass per unit area [EN ISO 9864]		g/m ²	70	90	100	110	120	130	150	180	200	230	250	280	300
Thickness [EN ISO 9863-1]		mm	0.40	0.60	0.65	0.70	0.80	0.90	1.00	1.20	1.30	1.40	1.50	1.55	1.60

Durability properties	Product information	Applications
<p>Geodren PPST 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.</p>	<p>POLYMER: Polypropylene, UV stabilized SPECIFIC WEIGHT: 0.91 kg/dm³ RAW MATERIAL: Staple fibers PROCESS: Needle punching and calendaring COLOUR: Raw white MELTING POINT: 165-175°C FIBER DIAMETER: 25-30 µm</p>	

Quality Management	Certification	Functions
<p>A quality management system according to the standard EN ISO 9001:2008 is used by Edilfloor SpA with the objective to achieve the complete customer satisfaction. An internal laboratory leads the quality control procedures for all the existing range and for the development of all the new products. Round-robin tests and constant co-operation with external laboratories are a guarantee of an optimized quality control system.</p> <p>The right is reserved to make changes without notice at any time.</p>	<p>Geodren PPST fulfills the requirements of the European regulation related to the construction products as per our certificate nr 1213-CPR-3269 with a quality control system of 2+ level.</p>	<p>Filtration Geodren acts as a sand filter by allowing water to move through the soil while retaining all upstream soil particles.</p> <p>Separation Geodren acts to separate two layers of soil that have different particle size distributions.</p> <p>Protection Geodren acts to prevent or limit local damage on material, element or other geosynthetic.</p> <p>Drainage Geodren acts as a drain to carry fluid flows through less permeable soils.</p>

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
* ISO 9001 *

SKZ
Notified body

CE
1213-CPR-3269

Edilfloor










Geodren® PPST



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

Rev.002

Mechanical properties			320	350	380	400	450	500	600	700	800	1000	1200	1500	2000
Tensile strength [EN ISO 10319]	MD	kN/m	25	27	28	30	32	35	40	45	50	60	70	85	75
	CMD	kN/m	27	30	32	34	36	40	50	65	80	90	105	140	155
Elongation at max load [EN ISO 10319]	MD	%	70	70	70	70	80	80	80	80	80	80	80	80	80
	CMD	%	70	70	70	70	80	80	80	80	80	80	80	80	80
Energy absorption index [EN ISO 10318]		kJ/m ²	9.1	10.0	10.5	11.2	13.6	15.0	18.0	22.0	26.0	30.0	35.0	45.0	46
Static puncture resistance [EN ISO 12236]		kN	4.2	4.5	5.0	5.5	6.0	6.5	8.0	9.0	10.0	13.0	14.0	18.0	20.0
Dynamic puncture resistance [EN ISO 13433]		mm	10	8	8	6	6	4	2	1	0	0	0	0	0
Pyramidal puncture resistance [EN 14574]		N	335	340	350	350	400	500	700	900	1000	1300	1600	2200	2200
Hydraulic properties															
Permeability normal to the plane [EN ISO 11058]		mm/s	60	50	40	35	30	30	25	20	20	15	15	15	5
In-plane flow capacity [EN ISO 12958]		10 ⁻³ l/ms	2.5	2.7	2.8	3.2	4.0	5.0	7.8	8.0	8.5	9.0	9.0	9.0	7
Characteristic opening size [EN ISO 12956]		µm	50	50	50	50	50	50	50	50	40	40	40	40	20
Physical properties															
Mass per unit area [EN ISO 9864]		g/m ²	320	350	380	400	450	500	600	700	800	1000	1200	1500	2000
Thickness [EN ISO 9863-1]		mm	1.65	1.80	2.20	2.50	2.65	3.00	4.00	5.00	5.50	6.50	7.00	7.50	10.0

Durability properties	Product composition	Applications
Geodren PPST 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.	<p>POLYMER: Polypropylene, UV stabilized SPECIFIC WEIGHT: 0.91 kg/dm³ RAW MATERIAL: Staple fibers PROCESS: Needle punching and calendering COLOUR: Raw white MELTING POINT: 165-175°C FIBER DIAMETER: 25-30 µm</p>	 Roads  Railways  Retaining wall  Drainage system  Erosion control system  Basins and dams  Canals  Tunnels  Landfills

Quality Management	Certification	Functions
A quality management system according to the standard EN ISO 9001:2008 is used by Edilfloor SpA with the objective to achieve the complete customer satisfaction. An internal laboratory leads the quality control procedures for all the existing range and for the development of all the new products. Round-robin tests and constant co-operation with external laboratories are a guarantee of an optimized quality control system. The right is reserved to make changes without notice at any time.	Geodren PPST fulfills the requirements of the European regulation related to the construction products as per our certificate nr 1213-CPR-3269 with a quality control system of 2+ level.	 Filtration Geodren acts as a sand filter by allowing water to move through the soil while retaining all upstream soil particles.
		 Separation Geodren acts to separate two layers of soil that have different particle size distributions.
		 Protection Geodren acts to preventing or limiting local damage on material, element or other geosynthetic.
		 Drainage Geodren acts as a drain to carry fluid flows through less permeable soils.

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
ISO 9001

SKZ
Notified body

CE
1213-CPR-3269

Edilfloor