

Geodren® PEIT



Nonwoven geotextile made by polyester for filtration, separation and protection.

Rev.003

Physical properties			150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Mass per unit area		g/m ²	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
[EN ISO 9864]															
Thickness		mm	0.9	1.1	1.3	1.6	1.75	1.9	2.2	2.8	3	3.5	4	4.5	6
[EN ISO 9863-1]															
Mechanical properties															
Tensile strength	MD	kN/m	1.2	1.8	2	2.5	2.8	3.2	4.2	5.5	6	6.5	7.5	13	20
	CMD	kN/m	1.2	1.8	2	2.7	3.2	4	5.2	7.5	8	9	10.5	16	25
Elongation at max.load	MD	%	50	50	50	50	50	50	60	70	70	80	80	80	80
	CMD	%	60	60	60	60	60	60	70	80	80	90	90	90	90
[EN ISO 10319]															
Energy absorp ion index		kJ/m ²	0.3	0.5	0.6	0.7	0.8	1	1.5	2.4	2.6	3.3	3.8	6.2	9.6
[EN ISO 10318]															
Static puncture resistance		kN	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.2	1.4	1.8	2.2	2.8	4
[EN ISO 12236]															
Dynamic puncture resistance		Mm	>50	>50	45	40	30	20	16	6	2	2	0	0	0
[EN ISO 13433]															
Pyramidal puncture resistance		N	-	-	-	100	150	180	200	250	270	300	500	700	800
[EN 14574]															
Hydraulic properties															
Permeability normal to the plane		mm/s	110	100	80	60	50	40	30	25	25	20	20	20	20
[EN ISO 11058]															
In-plane flow capacity		10 ⁻³ /ms	1.6	2.1	2.3	2.7	3	3.2	5	7	7	8	9	9	9
[EN ISO 12958]															
Characteristic opening size		µm	65	60	55	55	55	45	45	35	35	35	30	30	30
[EN ISO 12956]															

Durability properties	Product composition		Applications		
Geodren PEIT have to be covered within 15 days 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<pH<9 and soil temperature < 25 °C.	POLYMER:	Polyester			
	SPECIFIC WEIGHT:	1.38 kg/dm³	Roads	Railways	Retaining wall
	RAW MATERIAL:	Staple fibers			
	PROCESS:	Needlepunching and calendering			
	COLOUR:	Raw white	Drainage system		
					
		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.	Geodren PPST fulfills the requirements of the European regulation related to the construction products as per our certificate nr 1213-CPR-3275 with a quality control system of 2+ level.			
		Filtration	Separation	Protection
		Geodren acts as a sand filter by allowing water to move through the soil while retaining all upstream soil particles.	Geodren acts to separate two layers of soil that have different particle size distributions.	Geodren acts to preventing or limiting local damage on material, element or other geosynthetic.

The right is reserved to make changes without notice at any time.

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

SKZ
Notified body

CE
1213-CPR-3275

Edilfloor