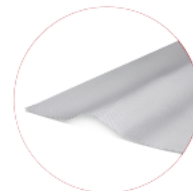


Geodren® W-PES











Woven geotextile made by high tenacity polyester yarn for reinforcement, filtration and separation.




Rev.001

Mechanical properties			90/90 S	100/100 S	120/120 S	150/50 S	150/150 S	200/50 S	250/50 S	300/50 S	400/50 S
Tensile strength [EN ISO 10319]	MD	kN/m	100	110	125	160	160	220	280	325	410
	CMD	kN/m	100	110	125	55	160	60	60	65	60
Elongation at max.load [EN ISO 10319]	MD	%	10	10	12	11	13	10	11	12	11
	CMD	%	11	12	10	11	11	9	10	15	8
Load @ 2% [EN ISO 10319]	MD	kN/m	18.6	20.4	17.1	29.9	11.3	36.4	52.4	60.6	75.6
	CMD	kN/m	17.5	23.1	26.6	11.1	34.0	11.8	11.7	5.9	13.3
Load @ 5% [EN ISO 10319]	MD	kN/m	38.0	39.4	35.9	50.1	35.2	59.5	91.7	128.4	130.5
	CMD	kN/m	30.8	43.6	55.9	18.2	63.6	18.3	32.7	16.5	34.6
Static puncture resistance [EN ISO 12236]		kN	7.3	4.0	4.0	8.0	6.0	10.0	6.3	8.2	6.2
Dynamic puncture resistance [EN ISO 13433]		mm	6	27.2	33.2	10.1	22.8	9.5	24.8	18	34.8

Hydraulic properties											
Permeability normal to the plane [EN ISO 11058]		mm/s	13	22	16	43	15	8	1	2.6	11.6
Characteristic opening size [EN ISO 12956]		µm	191	485	742	451	449	174	78	74	176

Physical properties											
Mass per unit area [EN ISO 9864]		g/m ²	270	330	370	320	460	395	535	550	680
Thickness [EN ISO 9863-1]		g/m ²	0.48	0.80	0.90	0.64	1.02	0.84	1.01	1.11	1.46

Durability properties	Product information	Applications
Geodren W-PES safely passes the weathering test according to EN 12224: it is highly recommended to cover the geotextile within 1 day 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: Polyester SPECIFIC WEIGHT: 1.36 kg/dm³ RAW MATERIAL: PES yarn PROCESS: Weaving COLOUR: White MELTING POINT: 255-260°C</p>	 Roads  Railways  Retaining wall  Drainage system  Erosion control system  Basins and dams  Canals  Landfills

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 W-PES fulfills the requirements of the European regulation related to the construction products with a quality control system of 2+ level.</p>	<p>Filtration  Geodren W-PES acts as a sand filter by allowing water to move through the soil while retaining all upstream soil particles.</p> <p>Separation  Geodren W-PES acts to separate two layers of soil that have different particle size distributions.</p> <p>Reinforcement  Geodren W-PES fulfills the reinforcement function with the aim to increase the mechanical properties of the soil where it is used.</p>

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

