

DRAINAGE GEOCOMPOSITE GXP DREN 6



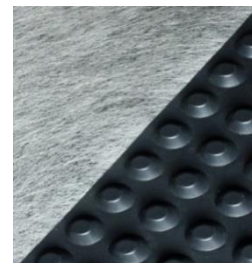
Applications: In waterproofing and drainage systems, mechanical protection and drainage of walls and foundations. Water drainage layer in retaining walls, bridge abutments, floor slab, tunnels, drainage trenches and green roofs, underground park areas.

As a separation and drainage layer in the construction of substructures of roads, railways, airports, as a protective layer against mechanical damage of waterproofing layers and root-proof barrier, as the sealing and degassing layer in landfill sites/waste areas/water reservoirs.

Composition: 8mm drainage core made of HDPE (high density polyethylene) in thickness 0.6 mm thermally bonded with a filtration PP non-woven geotextile of 100 g/m².

Functions:

SEPARATION, FILTRATION, DRAINAGE, PROTECTION.



Declared performance:

	Essential characteristics	Test method	Unit	Average value	Tolerance	Harmonized technical specification	
GCO	Water flow capacity (hard/hard, i=1, MD σ=20 kPa) (hard/hard, i=1, MD σ=100 kPa) (hard/hard, i=1, MD σ=200 kPa)	EN ISO 12958	m ² /s *10 ⁻³ (= l/m*s)	1,85 1,14 0,83	± 0,45 ± 0,32 ± 0,21	EN 13252:2016	
	Water flow capacity hard/hard, i=0,1 MD σ=20 kPa hard/hard, i=0,1 MD σ=50 kPa hard/hard, i=0,1, MD σ=100 kPa soft/soft, i=0,02, MD σ=50 kPa	EN ISO 12958	m ² /s *10 ⁻³ (= l/m*s)	0,49 0,38 0,31 0,10	± 0,10 ± 0,07 ± 0,06 ± 0,02		
	Tensile strength (MD / CMD)	EN ISO 10319	kN/m	MD 17,2 CMD 17,4	- 3,3 - 3,6		
	Elongation at maximum force	EN ISO 10319	%	MD 40 CMD 38	± 10 ± 10		
	Compressive strength	EN ISO 25619-2	kN/m ²	300	± 30		
	Mass per unit	EN ISO 9864	g/m ²	700	± 50		
	Thickness (2 kPa) – height	EN ISO 9863-1	mm	8,4 mm	± 0,8		
	Temperature resistance	-	°C	- 40 ÷ +80	-		
	Durability in soil - Annex B (test method B.4.2.2. - 56 days)	Product should be covered within 2 weeks after installation. Durability at least 50 years in natural soils of 4<pH<9 and temperatures ≤ 25°C.					
	Microbiological resistance	EN 12225	Retained strength	MD / CMD 100%			
	Dynamic cone drop	EN ISO 13433	mm	13	+ 4		
	CORE	Carbone black content	-	%	0.8 - 2,5		-
Density min		-	g/cm ³	0,940	+ 0.02		
Tensile strength (MD / CMD)		EN ISO 10319	kN/m	8,0 / 8,5	- 0,8 / - 0,9		
Thickness (2 kPa)		EN ISO 9863-1	mm	8,0	± 1,0		
GXT	Tensile strength (MD / CMD)	EN ISO 10319	kN/m	6,6 / 6,6	- 0,7 / - 0,7		
	Elongation at brake (MD / CMD)	EN ISO 10319	%	45/45	± 5 / ± 5		
	Opening size O ₉₀	EN ISO 12956	µm	150	± 30		
	Static puncture resistance (CBR)	EN ISO 12236	N	950	- 110		
	Dynamic perforation (cone drop)	EN ISO 13433	mm	40	+ 7		
	Water flow normal to plane	EN ISO 11058	l/m ² *s m/s	80 80 *10 ⁻³	- 15 -15 *10 ⁻³		

Note: MD – Machine Direction; CMD – Cross Machine Direction

The material is resistant to typical chemicals, rust, fungi and bacteria.

This product is CE marked. Nr of Declaration of Performance: GXP DREN 6 - 05.