TEXDRAIN

TECHNICAL DATASHEET

Type of geodrain (GDR)	Geocomposite with flexible core
Composition	Polypropylene / Polyester
Main function	Drainage

Texdrain is a drainage composite designed to intercept and accelerate the evacuation of infiltrating waters from pavement structures towards neighboring terrain over the full height /width of the road's foundation. Its manufacturing and hydraulic properties allow for the retention of fine soil particles, thus combining drainage and separation/filtration functions. The product is available in two models: Texdrain 80V for vertical drainage (with sheath, to insert a drainage pipe) and Texdrain 80H (without sheath) for horizontal drainage and also for vertical drainage, for example, for bridge abutments.

Property	Test Method	TEXDRAIN 80V	TEXDRAIN 80H
Technical data of geocomposite			
Physical			
Thickness	ASTM D5199	7.0 mm	7.0 mm
Construction	-	With filtering sheath for pipe(1)	Without sheath
Hydraulic transmissivity of the draining core (Gradient 1.0)(2)			
8 kPa	ASTM D4716	2.0×10^{-4} m²/s	
20 kPa	ASTM D4716	1.5×10^{-4} m²/s	
50 kPa	ASTM D4716	0.8×10^{-4} m²/s	
200 kPa	ASTM D4716	0.2×10^{-4} m²/s	
Dimensions			
Draining core height	-	0.85 m / 1.20 m	0.68 m / 3.4 m
Length	-	30 m	50 m
Technical data of the filtering sheath			
Mechanical			
Tensile strength	ASTM D4632	400 N	
Elongation at break	ASTM D4632	> 25 %	
Trapezoid tear	ASTM D4533	180 N	
CBR puncture	ASTM D6241	1200 N	
Hydraulic			
Water penetration resistance(3)	CAN/CGSB 4.2 No. 26.3	2 cm H_2O	
FOS(3)	CAN 148.1 No. 10	150 µm	
Permittivity	ASTM D4491	$0.05\ sec^{-1}$	

Properties are based on the Minimum Average Roll Value (MARV) except when specified otherwise.
Our quality management system is certified by ISO-9001 standard.
Our internal laboratory is certified by the Geosynthetic Accreditation Institute - Laboratory Accreditation Programm (GAI-LAP).
The values entered are values obtained at the time of manufacture. Handling and storage conditions may change some properties.

1- Suitable for all standard drain pipes for road construction.
2- Typical value. For calculation purposes, the values obtained for a gradient of 1.0 can be used for a gradient of 0.1.
3- Maximum average roll value

Revision : 2020-09-14