TENCATE Mirafi

Drainage

G100N G-Series Drainage Composite

G100N Drainage Composite is produced from a high compressive strength core with a Mirafi® 140NC nonwoven filter geotextile bonded to one side.

Core Mechanical Properties	Test Method	Unit	Typical Roll Value
Thickness	ASTM D 1777	mm (in)	10.16 (0.40)
Compressive Strength	ASTM D 1621	kPa (psf)	862 (18,000)
Maximum Flow Rate[1]	ASTM D 4716	l/min/m^2 (gal/min/ft^2)	260 (21)
Installed Vertically Flow Rate[2]	ASTM D 4716	l/min/m^2 (gal/min/ft^2)	155 (12.5)
Installed Horizontally Flow Rate[3]	ASTM D 4716	l/min/m^2 (gal/min/ft^2)	30 (2.4)

[1] In plane flow rate at 173 kPa (3600 psf) with a gradient of 1.0
[2] Installed flow rate with soil overburden at a vertical gradient of 1.0
[3] Installed flow rate with soil overburden at a horizontal gradient of 0.05

Geotextile Mechanical Properties Mirafi® 140NC	Test Method	Unit	Typical Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.49 (111)	0.49 (111)
Puncture Strength	ASTM D 4833	kN (lbs)	0.31 (70)	
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)	
Permittivity	ASTM D 4491	sec^{-1}	1.9	
Flow Rate	ASTM D 4491	l/min/m^2 (gal/min/ft^2)	5698 (140)	

Physical Properties	Test Method	Unit	Typical Value
Roll Dimensions (width x length)	--	m (ft)	1.22 x 15.24 (4.0 x 50)
Roll Area	--	m^2 (ft^2)	18.6 (200)
Estimated Roll Weight	--	kg (lb)	22.7 (50)

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