



G100N G-Series Drainage Composite

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

TenCate Geosynthetics Americas Laboratories are accredited by [a2La](#) (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

Core Mechanical Properties	Test Method	Unit	Typical Roll Value
Thickness	ASTM D1777	in (mm)	0.4 (10.2)
Compressive Strength	ASTM D1621	psf (kPa)	18,000 (861)
Maximum Flow Rate ¹	ASTM D4716	gal/min/ft (l/min/m)	21 (260)
Installed Vertically Flow Rate ²	ASTM D4716	gal/min/ft (l/min/m)	12.5 (155)
Installed Horizontally Flow Rate ³	ASTM D4716	gal/min/ft (l/min/m)	2.4 (30)

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

Mechanical Properties for Mirafi® 140NC	Test Method	Unit	Minimum Average Roll Value		
			MD	CD	
Grab Tensile Strength	ASTM D4632	lbs (N)	100 (445)	100 (445)	
Grab Tensile Elongation	ASTM D4632	%	50	50	
CBR Puncture Strength	ASTM D6241	lbs (N)	250 (1113)		
				Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)		
				Minimum Roll Value	
Permittivity	ASTM D4491	sec ⁻¹	2.0		
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	140 (5704)		
				Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70		

Physical Properties	Unit	Typical Value
Roll Dimensions (width x length)	ft (m)	4.0 x 50 (1.2 x 15.2)
Roll Area	ft ² (m ²)	200 (18.6)
Estimated Roll Weight	lb (kg)	50 (23)

Thickness (ASTM D1777), Compressive Strength (ASTM D1621), Maximum Flow Rate¹ (ASTM D4716), Installed Vertically Flow Rate² (ASTM D4716), Installed Horizontally Flow Rate³ (ASTM D4716) is not covered by our current A2LA accreditation.

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Testing Lab 1291.01 & 1291.02