

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.

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

Geotextile Mechanical Properties Mirafi® 140NC	Test Method	Unit	Typical Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	111 (494)	111 (494)
CBR Puncture Strength	ASTM D6241	lbs (N)	337 (1500)	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.21)	
Permittivity	ASTM D4491	sec ⁻¹	1.9	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	140 (5704)	

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)

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