



# G100N G-Series Drainage Composite

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

TenCate Geosynthetics Americas Laboratories are accredited by 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)
Compressive Strength	ASTM D1621	psf (kPa)	18,000 (862)
Flow Rate <sup>1</sup>	ASTM D4716	gal/min/ft (l/min/m)	21 (261)

<sup>1</sup> In plane flow rate at 172 kPa (3600 psf) with a gradient of 1.0

Mechanical Properties for Mirafi® 140N	Test Method	Unit	Typical Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	130 (578)	130 (578)
Grab Tensile Elongation	ASTM D4632	%	70	70
CBR Puncture Strength	ASTM D6241	lbs (N)	360 (1550)	
			<b>Maximum Opening Size</b>	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			<b>Minimum Roll Value</b>	
Permittivity	ASTM D4491	sec <sup>-1</sup>	2.1	
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	150 (6113)	
			<b>Minimum Test Value</b>	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	
<b>Physical Properties</b>		<b>Unit</b>	<b>Typical Value</b>	
Roll Dimensions (width x length)		ft (m)	4.0 x 50 (1.2 x 15.2)	
Roll Area		ft <sup>2</sup> (m <sup>2</sup> )	200 (18.6)	
Estimated Roll Weight		lb (kg)	50 (23)	

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