

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 ¹	ASTM D4716	gal/min/ft (l/min/m)	21 (261)

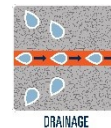
¹ In plane flow rate at 172 kPa (3600 psf) with a gradient of 1.0

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)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec ⁻¹	2.1	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	150 (6113)	
			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)		

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DRAINAGE

G100NC G-Series Drainage Composite

G100N Drainage Composite is produced from a high compressive strength polystyrene core with a Mirafi® 160N nonwoven filter geotextile bonded to one side.

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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 ¹	ASTM D4716	gal/min/ft (l/min/m)	21 (261)

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

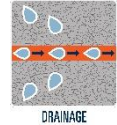
Geotextile Mechanical Properties Mirafi® 160N	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	160 (712)	160 (712)
CBR Puncture Strength	ASTM D6241	lbs (N)	400 (1780)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec ⁻¹	1.5	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	110 (4481)	
			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)

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G100W G-Series Drainage Composite

G100W Drainage Composite is produced from a high compressive strength core with a Mirafi® monofilament FW402 filter geotextile bonded to one side.

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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)
In-Plane Flow Rate ¹	ASTM D4716	gal/min/ft (l/min/m)	18 (224)

¹ In plane flow rate at 173 kPa (3600 psf) with a gradient of 1.0

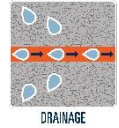
Geotextile Mechanical Properties Mirafi® FW402	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	365 (1624)	200 (890)
CBR Puncture Strength	ASTM D6241	lbs (N)	675 (3004)	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
Percent Open Area	COE-02215	%	10	
Permittivity	ASTM D4491	sec ⁻¹	2.1	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	145 (5907)	

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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G200N G-Series Drainage Composite

G200N Drainage Composite is produced from a high compressive strength polypropylene core with a Mirafi® 140N nonwoven filter geotextile bonded to both sides. Mirafi® 140N meets AASHTO M288 Class 3 for Elongation > 50%.

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Core Mechanical Properties	Test Method	Unit	Typical Roll Value
Thickness	ASTM D1777	in (mm)	0.4 (10.2)
Compressive Strength	ASTM D1621	psf (kPa)	21,000 (1005)
Maximum Flow Rate ¹	ASTM D4716	gal/min/ft (l/min/m)	21 (260)

¹ In plane flow rate at 173 kPa (3600 psf) with a gradient of 1.0

Geotextile Mechanical Properties Mirafi® 140N	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	120 (534)	120 (534)
CBR Puncture Strength	ASTM D6241	lbs (N)	210 (1413)	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec ⁻¹	1.7	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	135 (5500)	

Physical Properties	Unit	Typical Value
Roll Dimensions (width x length)	ft (m)	4 x 50 (1.2 x 15.2)
Roll Area	ft ² (m ²)	200 (18.6)
Estimated Roll Weight	lb (kg)	50 (22)

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G200NC G-Series Drainage Composite

G200NC Drainage Composite is produced from a high compressive strength polypropylene core with a Mirafi® 160N nonwoven filter geotextile bonded to both sides.

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Core Mechanical Properties	Test Method	Unit	Typical Roll Value
Thickness	ASTM D1777	in (mm)	0.4 (10.2)
Compressive Strength	ASTM D1621	psf (kPa)	16,500 (790)
Maximum Flow Rate ¹	ASTM D4716	gal/min/ft (l/min/m)	21 (260)

¹ In plane flow rate at 173 kPa (3600 psf) with a gradient of 1.0

Geotextile Mechanical Properties Mirafi® 160N	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	160 (712)	160 (712)
CBR Puncture Strength	ASTM D6241	lbs (N)	410 (1825)	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
Permittivity	ASTM D4491	sec ⁻¹	1.5	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	110 (4481)	

Physical Properties	Unit	Typical Value
Roll Dimensions (width x length)	ft (m)	4 x 50 (1.2 x 15.2)
Roll Area	ft ² (m ²)	200 (18.6)
Estimated Roll Weight	lb (kg)	50 (22)

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