TENCATE GEOSYNTHETICS
Americas

Mirafi® S600

Mirafi® S600 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S600 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	6.0 (203)
Thickness	ASTM D5199	mils (mm)	80 (2.0)
Grab Tensile Strength	ASTM D4632	lbs (N)	170 (757)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	70 (312)
CBR Puncture Strength	ASTM D6241	lbs (N)	450 (2003)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	80 (0.18)
			Minimum Roll Value
Permittivity	ASTM D4491	sec^{-1}	1.5
Permeability	ASTM D4491	cm/sec	0.45
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	80

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd^2 (m^2)	500 (418)

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TENCATE GEOSYNTHETICS
Americas

Mirafi® S800

Mirafi® S800 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S800 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	8.0 (271)
Thickness	ASTM D5199	mils (mm)	90 (2.3)
Grab Tensile Strength	ASTM D4632	lbs (N)	230 (1024)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	95 (423)
CBR Puncture Strength	ASTM D6241	lbs (N)	600 (2670)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Roll Value
Permittivity	ASTM D4491	sec^{-1}	1.4
Permeability	ASTM D4491	cm/sec	0.31
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	80

Physical Properties	Unit	Roll Value
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd^2 (m^2)	500 (418)

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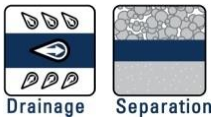
TENCATE GEOSYNTHETICS
Americas

Mirafi® S1000



Mirafi® S1000 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S1000 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	10.0 (339)
Thickness	ASTM D5199	mils (mm)	115 (2.9)
Grab Tensile Strength	ASTM D4632	lbs (N)	270 (1202)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	105 (467)
CBR Puncture Strength	ASTM D6241	lbs (N)	725 (3226)
			Minimum Roll Value
Permittivity	ASTM D4491	sec^{-1}	1.2
Permeability	ASTM D4491	cm/sec	0.32
Flow Rate	ASTM D4491	gal/min/ft^2 (l/min/m^2)	85 (3463)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Test Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd^2 (m^2)	500 (418)

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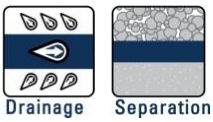
TENCATE GEOSYNTHETICS
Americas

Mirafi® S1200



Mirafi® S1200 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S1200 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	12.0 (407)
Thickness	ASTM D5199	mils (mm)	130 (3.3)
Grab Tensile Strength	ASTM D4632	lbs (N)	320 (1424)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	125 (556)
CBR Puncture Strength	ASTM D6241	lbs (N)	900 (4005)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Roll Value
Permittivity	ASTM D4491	sec^{-1}	0.9
Permeability	ASTM D4491	cm/sec	0.3
Flow Rate	ASTM D4491	gal/min/ft^2 (l/min/m^2)	65 (2648)
			Minimum Test Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd^2 (m^2)	500 (418)

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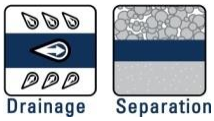
TENCATE GEOSYNTHETICS
Americas

Mirafi® S1600



Mirafi® S1600 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S1600 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	16.0 (542)
Thickness	ASTM D5199	mils (mm)	175 (4.4)
Grab Tensile Strength	ASTM D4632	lbs (N)	425 (1891)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	155 (690)
CBR Puncture Strength	ASTM D6241	lbs (N)	1200 (5340)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Roll Value
Permittivity	ASTM D4491	sec^{-1}	0.7
Permeability	ASTM D4491	cm/sec	0.31
Flow Rate	ASTM D4491	gal/min/ft^2 (l/min/m^2)	50 (2037)
			Minimum Test Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd^2 (m^2)	500 (418)

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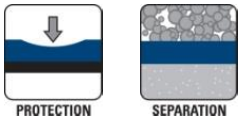
TENCATE GEOSYNTHETICS
Americas

Mirafi® S2000



Mirafi® S2000 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S2000 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	20.0 (678)
Thickness	ASTM D5199	mils (mm)	180 (4.6)
Grab Tensile Strength	ASTM D4632	lbs (N)	450 (2003)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	175 (779)
CBR Puncture Strength	ASTM D6241	lbs (N)	1310 (5830)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Test Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 150 (4.5 x 46)
Roll Area	yd^2 (m^2)	250 (209)

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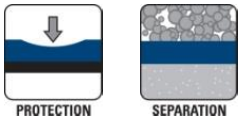
TENCATE GEOSYNTHETICS
Americas

Mirafi® S2400



Mirafi® S2400 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S2400 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	24.0 (814)
Thickness	ASTM D5199	mils (mm)	200 (5.1)
Grab Tensile Strength	ASTM D4632	lbs (N)	500 (2225)
Grab Tensile Elongation	ASTM D4632	%	50
Puncture Strength	ASTM D4833	lbs (N)	250 (1113)
CBR Puncture Strength	ASTM D6241	lbs (N)	1800 (8010)
Trapezoid Tear Strength	ASTM D4533	lbs (N)	200 (890)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Test Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 150 (4.5 x 46)
Roll Area	yd^2 (m^2)	250 (209)

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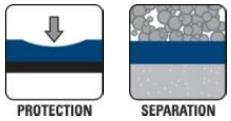
TENCATE GEOSYNTHETICS
Americas

Mirafi® S2600



Mirafi® S2600 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S2600 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	26.0 (881)
Thickness	ASTM D5199	mils (mm)	230 (5.8)
Grab Tensile Strength	ASTM D4632	lbs (N)	670 (2982)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	240 (1068)
Puncture Strength	ASTM D4833	lbs (N)	275 (1224)
CBR Puncture Strength	ASTM D6241	lbs (N)	2000 (8900)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Test Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 150 (4.5 x 46)
Roll Area	yd^2 (m^2)	250 (209)

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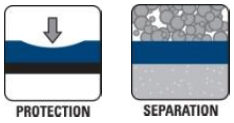
TENCATE GEOSYNTHETICS
Americas

Mirafi® S2800



Mirafi® S2800 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S2800 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	28.0 (949)
Thickness	ASTM D5199	mils (mm)	275 (7.0)
Grab Tensile Strength	ASTM D4632	lbs (N)	725 (3226)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	250 (1113)
Puncture Strength	ASTM D4833	lbs (N)	300 (1335)
CBR Puncture Strength	ASTM D6241	lbs (N)	2100 (9345)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			Minimum Test Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 150 (4.5 x 46)
Roll Area	yd^2 (m^2)	250 (209)

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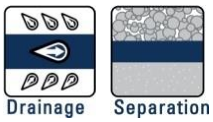
TENCATE GEOSYNTHETICS
Americas

Mirafi® S3200



Mirafi® S3200 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S3200 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd^2 (g/m^2)	32.0 (1084.8)
Thickness	ASTM D5199	mils (mm)	320 (8.1)
Grab Tensile Strength	ASTM D4632	lbs (N)	830 (3694)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	300 (1335)
Puncture Strength	ASTM D4833	lbs (N)	350 (1558)
CBR Puncture Strength	ASTM D6241	lbs (N)	2200 (9790)
			Maximum Opening Size
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
			MinimumTest Value
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Roll Sizes
Roll Dimensions (width x length)	ft (m)	15 x 150 (4.5 x 46)
Roll Area	yd^2 (m^2)	250 (209)

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