TENCATE GEOSYNTHETICS
Americas

Mirafi® FW300

Mirafi® FW300 geotextile composed of polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW300 geotextile 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	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	400 (1780)	335 (1491)
Grab Tensile Elongation	ASTM D4632	%	20	15
Trapezoid Tear Strength	ASTM D4533	lbs (N)	145 (645)	125 (556)
CBR Puncture Strength	ASTM D6241	lbs (N)	1250 (5563)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	8	
Permittivity	ASTM D4491	sec^{-1}	1.5	
Flow Rate	ASTM D4491	gal/min/ft² (l/min/m²)	115 (4685)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	30 (0.60)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	12.5 x 300 (3.8 x 91)
Roll Area	yd² (m²)	417 (348)

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TENCATE GEOSYNTHETICS
Americas

Mirafi® FW402

Mirafi® FW402 is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW402 geotextile 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	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	365 (1624)	200 (890)
Grab Tensile Elongation	ASTM D4632	%	24	10
Trapezoid Tear Strength	ASTM D4533	lbs (N)	115 (512)	75 (334)
CBR Puncture Strength	ASTM D6241	lbs (N)	675 (3004)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	10	
Permittivity	ASTM D4491	sec^{-1}	2.1	
Flow Rate	ASTM D4491	gal/min/ft² (l/min/m²)	145 (5907)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	12.5 x 300 (3.8 x 91)
Roll Area	yd^2 (m^2)	417 (348)

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TENCATE GEOSYNTHETICS
Americas

Mirafi® FW403

Mirafi® FW403 is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW403 geotextile 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	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	425 (1891)	350 (1558)
Grab Tensile Elongation	ASTM D4632	%	21	21
Trapezoid Tear Strength	ASTM D4533	lbs (N)	145 (645)	125 (556)
CBR Puncture Strength	ASTM D6241	lbs (N)	1340 (5963)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	6	
Permittivity	ASTM D4491	sec^{-1}	0.96	
Flow Rate	ASTM D4491	gal/min/ft^2 (l/min/m^2)	70 (2852)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	12.5 x 300 (3.8 x 91)
Roll Area	yd^2 (m^2)	417 (348)

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TENCATE GEOSYNTHETICS
Americas

Mirafi® FW404

Mirafi® FW404 is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW404 geotextile 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	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	400 (1780)	315 (1402)
Grab Tensile Elongation	ASTM D4632	%	15	15
Trapezoid Tear Strength	ASTM D4533	lbs (N)	150 (668)	165 (734)
CBR Puncture Strength	ASTM D6241	lbs (N)	1150 (5118)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	1.0	
Permittivity	ASTM D4491	sec^{-1}	0.9	
Flow Rate	ASTM D4491	gal/min/ft² (l/min/m²)	70 (2852)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.57 x 91.4)
Roll Area	yd² (m²)	500 (418)

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TENCATE GEOSYNTHETICS
Americas

Mirafi® FW500

Mirafi® FW500 geotextile is composed of high-tenacity monofilament and fibrillated polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW500 geotextile 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	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	375 (1669)	375 (1669)
Grab Tensile Elongation	ASTM D4632	%	15	8
Trapezoid Tear Strength	ASTM D4533	lbs (N)	120 (534)	120 (534)
CBR Puncture Strength	ASTM D6241	lbs (N)	1200 (5340)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	3	
Permittivity	ASTM D4491	sec^{-1}	0.2	
Flow Rate	ASTM D4491	$gal/min/ft^2$ ($l/min/m^2$)	15 (611)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	50 (0.30)	
			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 300 (4.57 x 91.4)
Roll Area	yd^2 (m^2)	500 (418)

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TENCATE GEOSYNTHETICS
Americas

Mirafi® FW700

Mirafi® FW700 geotextile is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW700 geotextile 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	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	370 (1647)	250 (1113)
Grab Tensile Elongation	ASTM D4632	%	15	15
Trapezoid Tear Strength	ASTM D4533	lbs (N)	100 (445)	60 (267)
CBR Puncture Strength	ASTM D6241	lbs (N)	950 (4228)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	4	
Permittivity	ASTM D4491	sec^{-1}	0.28	
Flow Rate	ASTM D4491	gal/min/ft² (l/min/m²)	18 (733)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	12 x 300 (3.7 x 91)
Roll Area	yd² (m²)	400 (334)

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