TENCATE Mirafi

Drainage Separation

Mirafi® 170N

Mirafi® 170N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 170N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.8 (180)	0.8 (180)
Grab Tensile Elongation	ASTM D 4632	%	50	50
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.3 (75)	0.3 (75)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2273.3 (330)	
Puncture Strength[1]	ASTM D 4833	kN (lbs)	0.5 (105)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	2.0 (450)	
Apparent Opening Size (AOS)[2]	ASTM D 4751	mm (U.S. Sieve)	0.150 (100)	
Permittivity	ASTM D 4491	sec^{-1}	1.2	
Flow Rate	ASTM D 4491	$l/min/m^2$ ($gal/min/ft^2$)	4277.7 (105)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

[1] ASTM D 4833 has been replaced with ASTM D 6241
[2] ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value
Weight	ASTM D 5261	g/m^2 (oz/yd^2)	250.9 (7.4)
Thickness	ASTM D 5199	mm (mils)	1.7 (67)
Roll Dimensions (width x length)	--	m (ft)	4.5 x 91 (15 x 300)
Roll Area	--	m^2 (yd^2)	418 (500)
Estimated Roll Weight	--	kg (lb)	110 (242)

TENCATE materials that make a difference