

Mirafi[®] 140NC

Mirafi[®] 140NC is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi[®] 140NC 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)	0.4 (100)	0.4 (100)
Grab Tensile Elongation	ASTM D 4632	%	60	60
Toughness	Grab Tensile Strength x Elongation	lbs	6000	
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.2 (45)	0.2 (45)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	1446.7 (210)	
Puncture Strength ¹	ASTM D 4833	kN (lbs)	0.3 (65)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	1.1 (250)	
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)	
Permittivity	ASTM D 4491	sec ⁻¹	1.8	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	5703.6 (140)	
Mass / Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	135.6 (4.0)	
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	
Thickness	ASTM D 5199	mm (mils)	1.1 (45)	
Roll Dimensions (width x length)	--	m (ft)	3.8 x 110 (12.5 x 360)	4.5 x 110 (15 x 360)
Roll Area	--	m ² (yd ²)	418 (500)	502 (600)
Estimated Roll Weight	--	kg (lb)	69 (152)	83 (182)

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