



Mirafi® 140NL/O

Mirafi® 140NL/O is an orange nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 140NL/O 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	Typical Value ¹	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	100 (445)	100 (445)
Grab Tensile Elongation	ASTM D4632	%	75	75
Trapezoid Tear Strength	ASTM D4533	lbs (N)	50 (223)	50 (223)
CBR Puncture Strength	ASTM D6241	lbs (N)	310 (1380)	
Permittivity	ASTM D4491	sec ⁻¹	2.4	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	175 (7130)	
UV Resistance (at 500 hours) ¹	ASTM D4355	% strength retained	70	

Physical Properties	Unit	Typical Value ²
Weight (ASTM D5161)	oz/yd ² (g/m ²)	3.8 (129)
Thickness (ASTM D5199)	mils (mm)	35 (0.9)
Roll Dimensions (width x length)	ft (m)	15 x 360 (4.5 x 110)
Roll Area	yd ² (m ²)	600 (502)
Estimated Roll Weight	lb (kg)	157 (71)

Mirafi® 140NL/O orange polypropylene nonwoven is not manufactured with any heavy metals contents. The regulated metals – lead, mercury, cadmium, and hexavalent chromium are not intentionally added to any component in this product during the manufacturing process.

² ASTM D4439 Standard Terminology for Geosynthetics: typical value, *n*—for geosynthetics, the mean value calculated from documented manufacturing quality control test results for a defined population obtained from one test method associated with on specific property.

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