

**REINFORCING
SUCCESS**

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WINFAB® 450N needle-punched nonwoven geotextile is manufactured using polypropylene fibers that are formed into a dimensionally stable network, which allows the fibers to maintain their relative position.

WINFAB® 450N needle-punched nonwoven geotextile resists ultraviolet deterioration, rotting, and biological degradation and is inert to commonly encountered soil chemicals.




PROPERTY	TEST METHOD	MARV ENGLISH	MARV METRIC
Tensile Strength (Grab)	ASTM D4632	120 x 120 lbs	534 x 534 N
Elongation (Grab)	ASTM D4632	50% x 50%	50% x 50%
Trapezoidal Tear Strength	ASTM D4533	50 x 50 lbs	222 x 222 N
CBR Puncture	ASTM D6241	335 lbs	1,490
UV Resistance (500 hrs)	ASTM D4355	70%	70%
Apparent Opening Size*	ASTM D4751	70 US Std. Sieve	0.212 mm
Permittivity	ASTM D4491	1.7 sec ⁻¹	1.7 sec ⁻¹
Water Flow Rate	ASTM D4491	120 gpm/ft ²	4,889 lpm/m ²

*Maximum Average Roll Value

PROPERTY	TEST METHOD	TYPICAL ENGLISH	TYPICAL METRIC
Roll Dimensions	Measured	12.5 ft x 360 ft 15 ft x 360 ft	3.81 x 109.8 m 4.6 x 109.8 m
Roll Area	Measured	500 yd ² 600 yd ²	418 m ² 502 m ²

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