

# WINFAB 450N



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

**WINFAB 450N** 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 D-4632	120 x 120 lbs	534 x 534 N
Elongation	ASTM D-4632	50%	50%
CBR Puncture	ASTM D-6241	335 lbs	1490 N
Trapezoidal Tear	ASTM D-4533	50 x 50 lbs	222 x 222 N
UV Resistance (500 hrs)	ASTM D-4355	70%	70%
Apparent Opening Size (AOS)*	ASTM D-4751	70 US Std. Sieve	0.212 mm
Permittivity	ASTM D-4491	1.8 sec <sup>-1</sup>	1.8 sec <sup>-1</sup>
Water Flow Rate	ASTM D-4491	120 gpm/ft <sup>2</sup>	4889 lpm/m <sup>2</sup>

\*Maximum Average Roll Valve

**Notes:**

- Mullen Burst ASTM D-3786 has been removed. It is not recognized by ASTM D-35 on Geosynthetics.
- Puncture ASTM D-4833 has been removed. It is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D-6241

PROPERTY	Typical English	Typical Metric
Roll Dimensions	12.5 x 360 ft 15 x 360 ft	3.81 x 109.8 m 4.6 x 109.8 m
Roll Area	500 yd <sup>2</sup> 600 yd <sup>2</sup>	418 m <sup>2</sup> 502 m <sup>2</sup>

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