



Product Data Sheet

■ FX™-45HS

Carthage Mills’ FX™-45HS is a multipurpose nonwoven geotextile of 100% polypropylene staple fibers that have been needlepunched and heatset.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical			
Grab Tensile	ASTM D 4632	534 N	120 lbs
Grab Tensile Elongation		50%	
Wide Width Tensile	ASTM D 4595	7.9 kN/m	45 lbs/in
Mullen Burst	ASTM D 3786	1586 kPa	230 psi
Puncture	ASTM D 4833	289 N	65 lbs
Trapezoidal Tear	ASTM D 4533	178 N	40 lbs
<input type="checkbox"/> Endurance			
UV Resistance	ASTM D 4355	70% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Apparent Opening Size (AOS)	ASTM D 4751	0.212 mm	70 US Std. Sieve
Percent Open Area	CW-02215	0%	
Permittivity	ASTM D 4491	1.50 sec ⁻¹	
Permeability		0.22 cm/sec	
Flow Rate		4889 l/min/m ²	120 gpm/ft ²
<input type="checkbox"/> Physical / Dimensional			
Mass Per Unit Area (Typical)	ASTM D 5261	152.6 g/m ²	4.5 oz/yd ²
Thickness (Typical)	ASTM D 5199	1.3 mm	55 mils
Standard Roll Sizes / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	3.81 m x 109.7 m 418 m ² 71.7 kg	12.5 ft x 360 ft 500 yd ² 158 lbs
		38.1-44.5 cm diam.	15-17.5 in. diameter
		4.57 m x 109.7 m 501.6 m ² 84.8 kg	15.0 ft x 360 ft 600 yd ² 187 lbs
		38.1-44.5 cm diam.	15-17.5 in. diameter

Unless otherwise noted, all properties reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.

The properties reported above are effective 02/18/04 and are subject to change without notice.

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