



■ FX[®]-1000HSE

Carthage Mills' FX-1000HSE is a nonwoven geotextile designed specifically for the environmental market, is constructed of polypropylene staple fibers which are formed into a random network, needle-punched and heatset for dimensional stability. FX-1000HSE is part of the Carthage [FX[®]-HSE Series](#) of nonwoven geotextiles, is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

The Carthage Mills' FX-HSE Series of environmental nonwoven geotextiles designates "Mass Per Unit Area" or "Weight Per Square Yard" as a true Minimum value.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical			
Grab Tensile Strength	ASTM D 4632	1.20 kN	270 lbs
Grab Tensile Elongation		50%	
Trapezoidal Tear	ASTM D 4533	0.467 kN	105 lbs
CBR Puncture	ASTM D 6241	3.22 kN	725 lbs
<input type="checkbox"/> Endurance			
UV Resistance	ASTM D 4355	80% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Permittivity ⁽¹⁾	ASTM D 4491	1.20 sec ⁻¹	
Permeability ⁽¹⁾		0.32 cm/sec	
Water Flow Rate ⁽¹⁾		3463 l/min/m ²	85 g/min/ft ²
Apparent Opening Size (AOS) ^(1,2)	ASTM D 4751	0.150 mm	100 US Std. Sieve
<input type="checkbox"/> Physical			
Mass Per Unit Area (Minimum)	ASTM D 5261	339 g/m ²	10.0 oz/yd ²
Thickness (Typical)	ASTM D 5199	2.9 mm	115 mils
Standard Roll Sizes Packaging Weight	Measured (Typical)	4.5 m x 91 m 418 m ² 168 kg	15.0 ft x 300 ft 500 yd ² 371 lbs

NOTES: Mullen Burst Strength ASTM D 3786 is no longer recognized by ASTM D35 on Geosynthetics. Puncture Strength ASTM D 4833 is not recognized by AASHTO M 288 and has been replaced with CBR Puncture ASTM D 6241.

- ⁽¹⁾ At the time of manufacturing. Handling, storage and shipping may change these properties.
- ⁽²⁾ Maximum Average Roll Value
 - Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
 - The properties reported above are effective 01-01-24 and are subject to change without notice.

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