Carthage Mills **Product Data**

Geotextiles | Erosion Control | Geogrids | Geomembranes

FX®-120HSE

Carthage Mills' FX-120HSE 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-120HSE 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
☐ **Mechanical** Grab Tensile Strength	ASTM D 4632	1.423 kN	320 lbs
Grab Tensile Elongation		50%	
Trapezoidal Tear	ASTM D 4533	0.556 kN	125 lbs
CBR Puncture	ASTM D 6241	4.00 kN	900 lbs
☐ **Endurance** UV Resistance	ASTM D 4355	70% @ 500 hrs	
☐ **Hydraulics / Filtration** Permittivity (1)	ASTM D 4491	0.70 sec^{-1}	
Water Flow Rate (1)		2037 $l/min/m^2$	50 $g/min/ft^2$
Apparent Opening Size (AOS) (1,2)	ASTM D 4751	0.150 mm	100 US Std. Sieve
☐ **Physical** Mass Per Unit Area (Minimum)	ASTM D 5261	407 g/m^2	12.0 oz/yd^2
Thickness (Typical)	ASTM D 5199	3.05 mm	120 mils
Standard Roll Sizes / Packaging / Weight		Call for all Roll Sizes, Packaging and Weights	

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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