

Geotextiles | Erosion Control | Geogrids | Geomembranes

## FX<sup>®</sup>-HS Series of Nonwoven Geotextiles

Carthage Mills' **FX-HS Series** of nonwoven geotextiles are of 100% polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. The **FX-HS Series** of nonwoven geotextiles delivers high durability; excellent physical and hydraulic properties; is inert to biological degradation; and resistant to naturally encountered chemicals, alkalis, and acids.

PROPERTY	ASTM TEST	UNIT	FX®- 30HS	FX®- 35HS	FX®- 40HS	FX®- 45HS	FX®- 60HS	FX®- 70HS	FX®- 80HS	FX®- 100HS	FX®- 120HS	FX®- 160HS
🗆 Mechanical												
Grab Tensile Strength	D 4632	lbs	80	90	100	120	160	180	205	250	300	380
Grab Tensile Elongation		%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Trapezoidal Tear	D 4533 D 6241	llaa	30	40	45	50	60	75	80	100	115	140
CBR Puncture		IDS	175	250	250	310	410	450	500	700	800	1025
Endurance UV Resistance	D 4355	% @ 500 hrs	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
Hydraulics/Filtration Permittivity	D 4491	sec <sup>-1</sup>	2.10	2.00	2.00	1.70	1.50	1.40	1.40	0.80	0.80	0.70
Water Flow Rate		gpm/ft <sup>2</sup>	150	145	140	135	110	105	95	75	65	50
Apparent Opening Size (AOS) <sup>(1)</sup>	D 4751	US Std Sieve	50	50	70	70	70	70	80	100	100	100
🗆 Physical												
Mass Per Unit Area (Typical)	D 5261	oz/yd²	3.0	3.5	4.0	4.5	6.0	7.0	8.0	10.0	12.0	16.0
Standard Roll Sizes Packaging Weight	Measured (Typical)	ft yd²	12.5 ft x 360 ft 500 yd <sup>2</sup>									
		lbs	120 lbs	120 lbs	142 lbs	150 lbs	231 lbs	250 lbs	266 lbs	324 lbs	386 lbs	511 lbs
		ft yd²	15.0 ft x 360 ft 600 yd <sup>2</sup>				15.0 ft x 300 ft <sup>(1)</sup> 500 yd <sup>2</sup>					
		lbs	135 lbs	160 lbs	160 lbs	198 lbs	203 lbs	231 lbs	254 lbs	347 lbs	383 lbs	463 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.

<sup>(1)</sup> 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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## Since 1958: America's First Geotextile Company