

Geotextiles | Erosion Control | Geogrids | Geomembranes

FX[®]-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 ⁻¹	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 ²	150	145	140	135	110	105	95	75	65	50
Apparent Opening Size (AOS) ⁽¹⁾	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 ²									
		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 ²				15.0 ft x 300 ft ⁽¹⁾ 500 yd ²					
		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.

⁽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.

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

Carthage Mills 4243 Hunt Road Cincinnati, OH 45242 www.carthagemills.com 513-794-1600 TELEPHONE 800-543-4430 TOLL FREE 513-794-3434 FACSIMILE info@carthagemills.com

Since 1958: America's First Geotextile Company