



■ FX® Nonwoven HS Series of Geotextiles

Carthage Mills' Nonwoven HS Series of Geotextiles of 100% polypropylene staple fibers provide filtration for subsurface drainage and separation of soils. The HS Series of geotextiles exhibit high durability and excellent physical and hydraulic properties.

PROPERTY	ASTM TEST	UNIT	FX®-30HS	FX®-35HS	FX®-40HS	FX®-45HS	FX®-60HS	FX®-70HS	FX®-80HS	FX®-100HS	FX®-120HS	FX®-160HS	
<input type="checkbox"/> Mechanical													
Grab Tensile Strength	D 4632	lbs	80	90	105	120	160	180	205	250	300	380	
Grab Tensile Elongation		%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	
Mullen Burst	D 3786	psi	130	185	210	230	280	330	350	460	580	750	
Trapezoidal Tear	D 4533	lbs	25	40	45	50	60	75	80	100	115	145	
Puncture	D 4833		30	55	65	65	85	100	110	150	175	240	
CBR Puncture	D 6241		210	260	300	335	400	460	525	625	825	1025	
<input type="checkbox"/> Endurance													
UV Resistance	D 4355	% @ 500 hrs	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	
<input type="checkbox"/> Hydraulics/Filtration													
Permittivity	D 4491	sec ⁻¹	2.00	2.00	2.00	1.50	1.30	1.50	1.40	1.20	0.90	0.70	
Water Flow Rate		gpm/ft ²	150	150	140	120	110	100	90	80	65	50	
Apparent Opening Size (AOS)	D 4751	US Std Sieve	50	50	70	70	70	70	80	100	100	100	
<input type="checkbox"/> Physical													
Mass Per Unit Area (Typical)	D 5261	oz/yd ²	3.0	3.5	4.0	4.5	6.0	7.0	8.0	10.0	12.0	16.0	
Thickness (Typical)	D 5199	mils	40	50	60	55	70	85	85	115	120	165	
Standard Roll Sizes Packaging Weight	Measured (Typical)	ft yd ²	12.5 ft x 360 ft 500 yd ²										
		lbs	125 lbs	140 lbs	155 lbs	170 lbs	225 lbs	250 lbs	280 lbs	325 lbs	400 lbs	530 lbs	
		ft yd ²	15.0 ft x 360 ft 600 yd ²					15.0 ft x 300 ft ⁽²⁾ 500 yd ²					
		lbs	147 lbs	170 lbs	185 lbs	195 lbs	225 lbs	250 lbs	280 lbs	325 lbs	400 lbs	530 lbs	

⁽¹⁾ At the time of manufacturing. Handling, storage and shipping may change these properties.

⁽²⁾ FX®-160HS is also available in roll size: 15.0 ft x 150 ft, 250 yd² and 265 lbs

- All values reported in this table are M.A.R.V. unless otherwise stated. Statistically, these values yield a 97.7% probability that any sample of geogrid tested will exceed the value reported.
- The properties reported above are effective 01/05/09 and subject to change without notice.

Seller makes no warranty, expressed or implied, concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded, and, to the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by seller concerning the uses or applications of said product are believed reliable and seller makes no warranty of results to be obtained. If the product does not meet Carthage Mills current published specifications, and the customer gives notice to Carthage Mills before installing the product, then Carthage Mills will replace the product without charge or refund the purchase price.