

Geotextiles | Erosion Control | Geogrids | Geomembranes

FX®-40HS

Carthage Mills' FX-40HS is a multipurpose nonwoven geotextile made of polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. FX-40HS is part of the Carthage **FX-HS Series** of nonwoven geotextiles, is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
🗆 Mechanical			
Grab Tensile Strength	ASTM D 4632	0.445 kN	100 lbs
Grab Tensile Elongation	ASTM D 4032	50%	
Trapezoidal Tear	ASTM D 4533	0.20 kN	45 lbs
CBR Puncture	ASTM D 6241	1.113 kN	250 lbs
Endurance			
UV Resistance	ASTM D 4355	70% @ 500 hrs	
Hydraulics / Filtration			
Permittivity ⁽¹⁾	ASTM D 4491	2.00 sec ⁻¹	
Water Flow Rate ⁽¹⁾	A3110 4491	5700 lpm/m ²	140 gpm/ft ²
Apparent Opening Size (AOS) ^(1,2)	ASTM D 4751	0.212 mm	70 US Std. Sieve
Physical			
Mass Per Unit Area (Typical)	ASTM D 5261	135.6 g/m²	4.0 oz/yd ²
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.81 m x 109.7 m 418 m ² 64 kg	12.5 ft x 360 ft 500 yd ² 142 lbs
		4.57 m x 109.7 m 501.6 m² 72.5 kg	15.0 ft x 360 ft 600 yd ² 160 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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