

MACTEX[®] H 40.1 NONWOVEN (CIVIL) GEOTEXTILE

Product Description

Maccaferri MacTex[®] H 40.1 is a polypropylene, staple fiber, needle-punched nonwoven geotextile and will meet the following 'Minimum Average Roll Values' (MARV) when tested in accordance with the methods listed below. The fibers are needled to form a stable network that retains dimensional stability relative to each other. MacTex[®] H 40.1 is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

MacTex[®] H 40.1 conforms to the property values listed below¹ and is subject to internal 'Manufacturing Quality Control' (MQC) tests that have been accredited by the 'Geosynthetic Accreditation Institute—Laboratory Accreditation Program' (GAI-LAP).

PROPERTY ⁴	TEST PROCEDURE	UNITS	MINIMUM AVERAGE ROLL VALUES (MARV) ²
Mechanical			
Grab Tensile	ASTM D 4632	lb (kN)	160 (0.712)
Grab Elongation	ASTM D 4632	%	50
Trapezoidal Tear	ASTM D 4533	lb (kN)	60 (0.267)
Puncture (CBR)	ASTM D 6241	lb (kN)	410 (1.824)
Endurance			
UV Resistance	ASTM D 4355	% Retained @ 500 hrs.	70
Hydraulic			
Permittivity	ASTM D 4491	sec ⁻¹	1.3
Flow Rate	ASTM D 4491	gpm/ft ² (lpm/m ²)	110 (4482)
Apparent Opening Size (AOS) ³	ASTM D 4751	US Sieve (mm)	70 (0.212)
Packaging (Typical)			
Roll Width	Measured	ft (m)	12.5 (3.81) / 15 (4.57)
Roll Length	Measured	ft (m)	360 (109.73) / 300 (91.44)
Roll Area	Measured	yd ² (m ²)	500 (418)
Roll Weight	Calculated	lb (kg)	230 (104)

Notes:

- The property values listed above are effective 9/2012 and are subject to change without notice
- Values shown are in weaker principal direction. 'Minimum Average Roll Values' (MARV) are calculated as the typical minus two (2) standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken from quality assurance testing will exceed the value reported.
- AOS (ASTM D 4751) is a 'Maximum Opening Diameter Value'
- Mullen Burst ASTM D 3786 and Puncture ASTM D 4833 have been removed. Neither test method is recognized by AASHTO M288. CBR Puncture ASTM D 6241 has replaced D 4833, under AASHTO M288. Mullen Burst is not recognized by ASTM D 35 committee on Geosynthetics.

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