

MACTEX[®] H 21.1 NONWOVEN (CIVIL) GEOTEXTILE

Product Description

Maccaferri MacTex[®] H 21.1 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 21.1 is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

MacTex[®] H 21.1 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)	120 (0.534)
Grab Elongation	ASTM D 4632	%	50
Trapezoidal Tear	ASTM D 4533	lb (kN)	50 (0.222)
Puncture (CBR)	ASTM D 6241	lb (kN)	310 (1.380)
Endurance			
UV Resistance	ASTM D 4355	% Retained @ 500 hrs.	70
Hydraulic			
Permittivity	ASTM D 4491	sec ⁻¹	1.7
Flow Rate	ASTM D 4491	gpm/ft ² (lpm/m ²)	120 (4885)
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)
Roll Area	Measured	yd ² (m ²)	500 (418) / 600 (502)
Roll Weight	Calculated	lb (kg)	170 (77) / 204 (93)

Notes:

1. The property values listed above are effective 9/2012 and are subject to change without notice
2. 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.
3. AOS (ASTM D 4751) is a 'Maximum Opening Diameter Value'
4. 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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