

**MACTEX® W2 80.05**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

MACTEX® W2 geotextiles are planar woven structures manufactured by weaving in the warp and weft directions, high tenacity polyester yarns; these fabrics are engineered materials suitable for short and long term soil reinforcement applications.

**MACTEX® W2**

Mechanical and Hydraulic properties			80.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	880	1,2,3
Tolerance			-80.00	1,2,3
Strain at Tch (MD)	EN ISO 10319	%	10.00	1,3,4
Tolerance			±2.00	1,3,4
Tensile strength (CMD)	EN ISO 10319	kN/m	55	1,2,5
Tolerance			-5.00	1,2,5
Strain at Tch (CMD)	EN ISO 10319	%	10.00	1,3,5
Tolerance			±2.00	1,3,5
CBR (Static Puncture Resistance)	EN ISO 12236	kN	15.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	12.00	1,2
Tolerance			+5.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	0.001	1,2,6
Flowrate		l/m <sup>2</sup> s	1.01	
Tolerance		m/sec	-5x10 <sup>-4</sup>	1,2
		l/m <sup>2</sup> s	-0.50	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	70.00	1,2
Tolerance			-50.00	1,2
Physical properties - typical				
Polymer-warp and weft			High Tenacity Polyester (PET)	
Roll width		m	5.20	8, 9
Roll length		m	100	8
Durability				
To be covered within 1 day after installation. Predicted to be durable for more than 100 years in natural soils at temperatures <25 °C, 4 < pH < 9				10

NOTES

- The reported values are based on test results run internally and by third party independent laboratories and - even if true and correct at the best of Maccaferri's knowledge - may be subject to change without prior notice therefore no guarantee or liability can be drawn from the listed information; for certified values refer to the one reported in the corresponding DoP of the listed grade;
  - Mean value;
  - MD means length direction;
  - T<sub>ch</sub> corresponds to the mean value deducted from the tolerance and corresponds to the MARV at the required confidence limit;
  - CMD means transverse direction;
  - The Constant Head Permittivity Test was performed at 50mm;
  - Nominal value; on reported data is admitted a typical tolerance of 5%;
  - Nominal values;
  - Variable width can be available depending on the production plan and the machine's availability; please check the stock position with the logistics dept. of the competent Maccaferri branch;
  - 100y service life EN 12247 test in progress.
- Info related to tensile strength at 2%, 5% strain, typical stress-strain curves and LTDS parameters are available on request
  - Other strengths (up to 1500kN) can be produced to fit client requirements. Please contact us for further information on feasibility
  - The material is flammable



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