

**MACTEX W2™ 10.05**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

**10.05**      **NOTES**

NOTES

Mechanical and Hydraulic properties			10.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	110	1,2,3
Tolerance			-10.00	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	8.50	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	20.00	1,2
Tolerance			+5.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	5.8x10 <sup>-3</sup>	1,2,6
Flowrate		l/m <sup>2</sup> s	5.80	
Tolerance		m/sec	-1x10 <sup>-3</sup>	1,2
		l/m <sup>2</sup> s	-1.00	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	110.00	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

- The reported values are based on test results run internally and by third part 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 the tolerance and corresponds to the MARV at 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 machines availability; please check stock position with the logistic 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



For the optimization and improvement process of the technical characteristics of the products, the producer reserves the right to modify standard and characteristics at the product without any warning. The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability for any loss or damage, however arising, which results directly or indirectly from the use of such information nor do we offer any warranty or immunity against patent infringement.

**MACTEX W2™ 20.05**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

**20.05**      **NOTES**

NOTES

Mechanical and Hydraulic properties			20.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	220	1,2,3
Tolerance			-20.00	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	11.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	16.00	1,2
Tolerance			+5.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	5.2x10 <sup>-3</sup>	1,2,6
Flowrate		l/m <sup>2</sup> s	5.20	
Tolerance		m/sec	-1x10 <sup>-3</sup>	1,2
		l/m <sup>2</sup> s	-1.00	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	96.00	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

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  - 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 machines availability; please check stock position with the logistic 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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**MACTEX W2™ 30.05**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

30.05

NOTES

NOTES

Mechanical and Hydraulic properties			30.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	330	1,2,3
Tolerance			-30.00	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	11.50	1,2
Tolerance			-2.50	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	15.00	1,2
Tolerance			+5.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	4.7x10 <sup>-3</sup>	1,2,6
Flowrate		l/m <sup>2</sup> s	4.70	
Tolerance		m/sec	-1x10 <sup>-3</sup>	1,2
		l/m <sup>2</sup> s	-1.00	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	90.00	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

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  - 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 machines availability; please check stock position with the logistic dept. of the competent Maccaferri branch;
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  - The material is flammable



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**MACTEX W2™ 40.05**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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**MACTEX W2**

40.05

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NOTES

Mechanical and Hydraulic properties			40.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	440	1,2,3
Tolerance			-40.00	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	11.80	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	14.00	1,2
Tolerance			+5.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	0.006	1,2,6
Flowrate		l/m <sup>2</sup> s	6.00	
Tolerance		m/sec	-1x10 <sup>-3</sup>	1,2
		l/m <sup>2</sup> s	-1.00	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	110.00	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

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  - CMD means transverse direction;
  - The Constant Head Permittivity Test was performed at 50mm;
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  - Nominal values;
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  - 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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**MACTEX W2™ 45.05**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

45.05

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Mechanical and Hydraulic properties			45.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	500	1,2,3
Tolerance			-50.00	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	12.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	14.00	1,2
Tolerance			+5.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	0.006	1,2,6
Flowrate		l/m <sup>2</sup> s	6.00	
Tolerance		m/sec	-1x10 <sup>-3</sup>	1,2
		l/m <sup>2</sup> s	-1.00	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	110.00	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

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  - Mean value;
  - MD means length direction;
  - T<sub>ch</sub> corresponds to the mean value deducted the tolerance and corresponds to the MARV at 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 machines availability; please check stock position with the logistic 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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**MACTEX W2™ 60.05**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

**60.05**

**NOTES**

**NOTES**

Mechanical and Hydraulic properties			60.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	660	1,2,3
Tolerance			-60.00	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	12.40	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	1.03	
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	75.00	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

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  - MD means length direction;
  - T<sub>ch</sub> corresponds to the mean value deducted the tolerance and corresponds to the MARV at 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 machines availability; please check stock position with the logistic dept. of the competent Maccaferri branch;
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- Info related to tensile strength at 2%, 5% strain, typical stress-strain curves and LTDS parameters are available on request
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  - The material is flammable



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

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**MACTEX W2**

**80.05**

**NOTES**

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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

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  - 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 machines availability; please check stock position with the logistic dept. of the competent Maccaferri branch;
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**MACTEX W2**

100.05

NOTES

NOTES

Mechanical and Hydraulic properties			100.05	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	1100	1,2,3
Tolerance			-100.00	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	17.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	10.00	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	0.99	
Tolerance		m/sec	-1x10 <sup>-4</sup>	1,2
		l/m <sup>2</sup> s	-0.10	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	58.00	1,2
Tolerance			-40.00	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

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  - MD means length direction;
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  - 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 machines availability; please check stock position with the logistic dept. of the competent Maccaferri branch;
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  - Other strengths (up to 1500kN) can be produced to fit client requirements. Please contact us for further information on feasibility
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**MACTEX W2**

100.10

NOTES

NOTES

Mechanical and Hydraulic properties			100.10	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	1100	1,2,3
Tolerance			-100.00	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	110	1,2,5
Tolerance			-10.00	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	18.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	10.00	1,2
Tolerance			+5.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	0.005	1,2,6
Flowrate		l/m <sup>2</sup> s	5.00	
Tolerance		m/sec	-1.5x10 <sup>-3</sup>	1,2
		l/m <sup>2</sup> s	-1.50	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	120.00	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

- The reported values are based on test results run internally and by third part 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 the tolerance and corresponds to the MARV at 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 machines availability; please check stock position with the logistic 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



For the optimization and improvement process of the technical characteristics of the products, the producer reserves the right to modify standard and characteristics at the product without any warning. The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability for any loss or damage, however arising, which results directly or indirectly from the use of such information nor do we offer any warranty or immunity against patent infringement.

**MACTEX W2™ 120.10**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

120.10

NOTES

NOTES

Mechanical and Hydraulic properties			120.10	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	1300	1,2,3
Tolerance			-100.00	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	110	1,2,5
Tolerance			-10.00	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	19.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	9.00	1,2
Tolerance			+6.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	8.6x10 <sup>-4</sup>	1,2,6
Flowrate		l/m <sup>2</sup> s	0.86	
Tolerance		m/sec	-1x10 <sup>-4</sup>	1,2
		l/m <sup>2</sup> s	-0.10	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	32.00	1,2
Tolerance			-20.00	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

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  - Mean value;
  - MD means length direction;
  - T<sub>ch</sub> corresponds to the mean value deducted the tolerance and corresponds to the MARV at 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 machines availability; please check stock position with the logistic 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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**MACTEX W2™ 140.10**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

**140.10**

**NOTES**

NOTES

Mechanical and Hydraulic properties			140.10	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	1540	1,2,3
Tolerance			-140.00	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	110	1,2,5
Tolerance			-10.00	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	23.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	8.00	1,2
Tolerance			+7.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	7.1x10 <sup>-4</sup>	1,2,6
Flowrate		l/m <sup>2</sup> s	0.71	
Tolerance		m/sec	-1x10 <sup>-4</sup>	1,2
		l/m <sup>2</sup> s	-0.10	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	24.00	1,2
Tolerance			-10.00	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

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  - Mean value;
  - MD means length direction;
  - T<sub>ch</sub> corresponds to the mean value deducted the tolerance and corresponds to the MARV at 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 machines availability; please check stock position with the logistic 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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**MACTEX W2™ 150.10**  
HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

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

**MACTEX W2**

150.10

NOTES

NOTES

Mechanical and Hydraulic properties			150.10	NOTES
Tensile strength (MD)	EN ISO 10319	kN/m	1600	1,2,3
Tolerance			-100.00	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	110	1,2,5
Tolerance			-10.00	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	25.00	1,2
Tolerance			-2.00	1,2
Cone Drop (Dynamic Puncture Resistance)	EN ISO 918	mm	8.00	1,2
Tolerance			+7.00	1,2
Permeability (Normal to plane)	EN ISO 11058	m/sec	6.3x10 <sup>-4</sup>	1,2,6
Flowrate		l/m <sup>2</sup> s	0.63	
Tolerance		m/sec	-1x10 <sup>-4</sup>	1,2
		l/m <sup>2</sup> s	-0.10	
Opening Pore Size O <sub>90</sub>	EN ISO 12956	µm	22.00	1,2
Tolerance			-10.00	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

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  - Mean value;
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  - 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 machines availability; please check stock position with the logistic dept. of the competent Maccaferri branch;
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