

**MACTEX® H 55.1**  
**NEEDLEPUNCHED & THERMOCALENDERED NONWOVEN GEOTEXTILES**

MACTEX® H are nonwoven geotextiles manufactured with virgin high tenacity polypropylene fibres assembled by a needlepunched treatment and thermocalendered. The fabrics are CE marked according to EN 13249, 13250, 13251, 13252, 13253, 13254, 13255, 13256, 13257, 13265 for the following intended uses: F, D, R, F+D, F+S+D, F+R+S, F+S, R+S, F+R.

MACTEX® H			55.1	Notes
<b>Mechanical and Hydraulic properties</b>				
Tensile Strength - CMD	EN ISO 10319	kN/m	23.0	1, 2
Tolerance			-3.0	
Strain - CMD	EN ISO 10319	%	75	1
Tolerance			± 20	
Tensile Strength - MD	EN ISO 10319	kN/m	22.0	1, 2
Tolerance			-3	
Strain - MD	EN ISO 10319	%	60	1
Tolerance			± 20.0	
Static Puncture Resistance - CBR	EN ISO 12236	N	3400	1
Tolerance			-400	
Dynamic Puncture Resistance - Cone Drop	EN ISO 13433	mm	16	1
Tolerance			4.0	
Permeability (normal to the plane)	EN ISO 11058	l/m <sup>2</sup> s	34	1, 3
Tolerance			± 15.0	
Opening Pore Size O <sub>95</sub>	EN ISO 12956	µm	55	1
Tolerance			± 20	
<b>Physical properties</b>				
Polymer raw material	high tenacity polypropylene fibres			
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	280	1
Thickness	EN ISO 9863-1	mm	1.60	4
Durability	Material to be covered within one month after installation. Predicted to be durable for 100 years service in natural soils with 4≤pH≤9 and soil temperature ≤25 °C			

**NOTES:**

- Mean value; if not differently indicated a standard 10% tolerance value is admitted;
- T<sub>ch</sub> corresponds to the mean value deducted the tolerance and corresponds to the MARV at 95% of confidence limit;
- Constant Head Permittivity Test performed at ΔH = 50mm;  
Intermediate geotextile grades are available on request.  
Loading plan by truck and container are available on request.  
These data are statistic figures according to Harmonized European Standards.
- Nominal Informative value; such value is not representative of any technical performances so it's provided as informative note but it can change substantially for any production lot and 30% variation on the nominal value declared are possible.

MD : longitudinal direction  
CMD : transversal direction

For the optimisation 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.



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**Maccaferri Ltd:**  
T: (+44) 1865 770555 [www.maccaferri.com/uk](http://www.maccaferri.com/uk)  
**Rep of Ireland:**  
T: (+353) 18851662 [www.geostrong.net](http://www.geostrong.net)

**Specialist areas:**  
Sales: E: sales.uk@maccaferri.com  
Technical: E: technical.uk@maccaferri.com  
Construction: E: construction.uk@maccaferri.com

