



Würzburg Germany

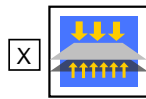
Via Paolo Paoletti 10, 51037 Montale (PT) Italy - EUROPE



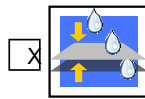
ECOFELT PES-SB 400

NONWOVEN NEEDLED FABRIC
PRODUCED WITH PES (POLYESTER) FIBER, WITHOUT CHEMICAL TREATMENTS

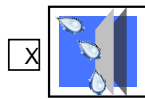
Intended functions:



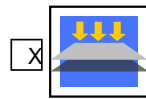
Separazione / Separation /
Séparation / Trennung



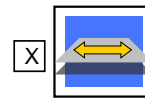
Filtrazione / Filtering /
Filtration / Filterung



Drenaggio / Drainage /
Drainage / Dränung



Protezione / Protection /
Schutzfunktion / Protection



Rinforzo / Reinforcement /
Renforcement / Verstärkung

FEATURES	NORM	U.M	AVERAGE	TOLLERANCE
AERIC MASS	UNI EN ISO 9864	gr/mq	400	+/- 10%
THICKNESS (2kPa)	UNI EN ISO 9863	mm.	1,76	-0,528
LONGITUDINAL TRACT. RESISTANCE	EN ISO 10319	kN/m	4	-1,2
TRASNVERSAL TRACT. RESISTANCE	EN ISO 10319	kN/m	4,4	-1,32
LONGITUDINAL ELONGATION	EN ISO 10319	%	50	-20%
TRANSVERSAL ELONGATION	EN ISO 10319	%	50	-20%
ENERGY ABSORPTION INDEX	EN ISO 10318	kJ/m ²	1,7	-0,528
STATIC PUNCHING	EN ISO 12236	kN	0,73	-0,22
DYNAMIC PUNCHING	UNI EN ISO 13433	mm.	32	+30%
OPENING SIZE	EN ISO 12956	um.	50	+/- 30%
WATER PERMEABILITY PERP. ON PLANE	EN ISO 11058	m/s	0,045	+/- 30%
DRAINING CAPACITY IN PLANE (20kPa)	EN ISO 12958	m ² /s	1,65E-06	+/- 30%
DURABILITY	UNI EN 12224	Predicting durability of minimum 5 years in natural soils with 4 <pH <9 and soil temperature <25 °. Be covered within 2 weeks from installation.		

<input checked="" type="checkbox"/> EN 13249 Strade / Roads Strassen / Routes	<input checked="" type="checkbox"/> EN 13250 Ferrovie / Railways Schienenbau / Rail	<input checked="" type="checkbox"/> EN 13251 Fondazioni / Foundations Fundamenten / Fondations	<input checked="" type="checkbox"/> EN 13252 Drenaggio / Drainage System Draensystem / Drainage	<input checked="" type="checkbox"/> EN 13253 AntiErosione / Erosion Control Erosionsschutz / Erosion
<input checked="" type="checkbox"/> EN 13254 Bacini / Dams Staudaemme / Barrages	<input checked="" type="checkbox"/> EN 13255 Canali / Canals Kaenalenbau / Canaux	<input checked="" type="checkbox"/> EN 13256 Tunnel / Tunnels Tunnelbau / Tunnel	<input checked="" type="checkbox"/> EN 13257 Rifiuti Solidi / Solid Waste Deponiebau / Dechets Solid	<input checked="" type="checkbox"/> EN 13265 Rifiuti Liquidi / Liquio vaste Fluessige Deponieabfall / Dechets Liquides

The above mentioned values have been obtained in Ecofibre SRL laboratory and in accredited outer Laboratories.

The values are real and correct according to our knowledge.

Roll lenght tolerance +/-2%, width tolerance +/-3cm

Montale 05-mar-18

Quality Control Manager
ECOFIBRE s.r.l.