

# Technical Data Sheet



# 140NW

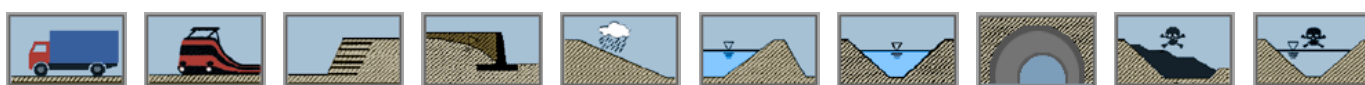


Certificate No: 0338-CPR-0693

Notified Body

**140NW** is a UV stabilized polypropylene needle punched non woven geotextile. It is manufactured at one of THRACE NWs&GEOs S.A. facilities that have achieved **ISO 9001:2008** certification for its systematic approach to quality. The construction of the geotextile makes **140NW** ideal for the following applications.

## Applications and intended uses of the needle punched non woven geotextile



EN 13249	EN 13250	EN 13251	EN 13252	EN 13253	EN 13254	EN 13255	EN 13256	EN 13257	EN 13265
F	F	F	F	F	F	F		F	F
R	R	R	D	R	R	R		R	R
F+S	F+S	F+S	F+S	F+S	F+S	F+S		F+S	F+R
R+S	R+S	R+S	F+D	R+S	R+S	R+S		R+S	
F+R	F+R	F+R	F+S+D	F+R	F+R	F+R		F+R	
F+R+S	F+R+S	F+R+S		F+R+S	F+R+S	F+R+S		F+R+S	

It is resistant to commonly encountered soil chemicals, mildew and insects and is non biodegradable. **140NW** conforms to the property values listed below. Technical data are based on statistical analysis on 95% confidence limit.

PROPERTY		TEST METHOD	VALUE	METRIC UNITS		TOLERANCE
MECHANICAL						
Tensile Strength (MD/CD)		EN 10319	Average	kN/m	11.0/11.0	-1.0/-1.0
Elongation (MD/CD)		EN 10319	Average	%	40/40	-8/-8
Resistance to static puncture		EN ISO 12236	Average	N	1600	-160
Dynamic Perforation resistance		EN ISO 13433	Average	mm	30	+6
HYDRAULIC						
Characteristic Opening Size (O <sub>90</sub> )		EN ISO 12956	Average	µm	100	±30
Water permeability VI <sub>H50</sub>		EN ISO 11058	Average	m/sec*10 <sup>-3</sup>	90	-27
Water flow rate		EN ISO 11058	Average	l/m <sup>2</sup> /sec	90	-27
Water flow capacity in the plane (MD/CD)	HG 1.0 at 20kPa	EN ISO 12958	Average	l/m/sec*10 <sup>-2</sup>	3.51/3.45	-
	HG 1.0 at 100kPa				1.33/1.25	-
	HG 1.0 at 200kPa				0.63/0.48	-
ENDURANCE						
Weathering Resistance (MD/CD)		EN 12224	Average	%retain strength	90/90	-
Resistance to Liquids – Acid (MD/CD)		EN 14030	Average	%retain strength	90/90	-
Resistance to Liquids – Alkaline (MD/CD)		EN 14030	Average	%retain strength	90/90	-
Oxidation Resistance (MD/CD)		EN ISO 13438	Average	%retain strength	90/90	-
Resistance to Soil Burial (MD/CD)		EN 12225	Average	%retain strength	90/90	-
PHYSICAL						
Mass/Unit Area		EN 9864	Average	gr/m <sup>2</sup>	135	±14.0
Thickness (2kPa)		EN 9863-1	Average	mm	1.1	±0.22
STANDARD PACKAGING						
Roll Width/ Length		Measured	Typical	m	5.4/100	±0.05/±2

### NOTES:

- THRACE NWs&GEOs S.A. reserve the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current.
- The geotextiles listed are CE marked and they come along with a CE certificate after a customer request.
- Polypropylene is the constituent polymer used in the production of the NW geotextiles series.
- To be covered within one month after installation. The above geotextile is predicted to be durable for more than 25 years in soil temperatures >25°C and are resistant to highly acid and alkaline environments on the basis of a durability assessment.
- F = Filtration, R = Reinforcement, S = Separation, D = Drainage, P = Protection



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