

Technical Data Sheet



Certificate No: 1071-CPR-7027

140NW



140NW is a UV stabilized polypropylene needle punched non-woven geotextile. It is manufactured at one of Thrace Nonwovens & Geosynthetics S.A. facilities that have achieved **ISO 9001** certification for its systematic approach to quality, as well as **ISO 14001** for its safe environmental practices. The construction of the geotextile makes **140NW** ideal for the following applications.

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

Intended use	roads and other trafficked areas	railways	earthworks, foundations and retaining structures	drainage control	erosion control	reservoirs and dams	canals	solid waste disposal	liquid waste containment
Technical Specification	EN 13249	EN 13250	EN 13251	EN 13252	EN 13253	EN 13254	EN 13255	EN 13257	EN 13265
Function	F,S,R	F,S,R	F,S,R	F,S,D	F,S,R	F,S,R	F,S,R	F,S,R	F,R

This product is resistant to commonly encountered soil chemicals, mildew and insects and is non-biodegradable. **140NW** conforms to the property values listed below.

PROPERTY		TEST METHOD	UNITS	NOMINAL VALUE	TOLERANCE
MECHANICAL					
Tensile Strength (MD/CD)		EN ISO 10319	kN/m	11.0/11.0	-1.0/-1.0
Elongation (MD/CD)		EN ISO 10319	%	40/40	-8/-8
Resistance to static puncture		EN ISO 12236	N	1650	-150
Dynamic Perforation resistance		EN ISO 13433	mm	30	+6
HYDRAULIC					
Characteristic Opening Size (O ₉₀)		EN ISO 12956	µm	100	±30
Water permeability V _{LH50}		EN ISO 11058	mm/sec	90	-27
Water flow rate		EN ISO 11058	l/(m²·sec)	90	-27
Water flow capacity in the plane	HG 1.0 at 20kPa	EN ISO 12958	10 ⁻³ l/(m·sec)	35.1/34.5	-30%
	HG 1.0 at 100kPa			13.3/12.5	-30%
	HG 1.0 at 200kPa			6.3/4.8	-30%
PHYSICAL					
Mass/Unit Area		EN ISO 9864	gr/m²	132	±13.2
STANDARD PACKAGING					
Roll Width/ Lenath		Measured	m	6.0/100	±5%/±2%

NOTES:

Thrace Nonwovens & Geosynthetics S.A. Technical Fabrics reserves 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.
Roll size may vary depending on type and customer request

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- ☒ EN ISO 9001:2015
- ☒ EN ISO 14001:2015
- ☒ EN ISO 50001:2018
- ☒ EN ISO 45001:2018