



DECLARATION OF PERFORMANCE

1071-CPR-7027/P430NW-PR

19

1. **Needle Punched Non-Woven Polypropylene Geotextile Fabric**

2. **P430NW-PR**

3. **Applications and intended uses of the needle punched nonwoven geotextile**

Intended use	roads and other trafficked areas	railways	earthworks, foundations and retaining structures	drainage control	erosion control	reservoirs and dams	canals	tunnels	solid waste disposal	liquid waste containment
Technical Specification	EN 13249	EN 13250	EN 13251	EN 13252	EN 13253	EN 13254	EN 13255	EN 13256	EN 13257	EN 13265
Function	F,S,R	F,S,R	F,S,R	F,S,D	F,S,R	F,S,R,P	F,S,R,P	P	F,S,R,P	F,R,P

4. **Manufactured by: THRACE Nonwovens & Geosynthetics S.A.** - Head office: 20 Marinou Antipa str., GR-174 55 Alimos Athens, Greece / Factory: Magiko Xanthi, GR-671 00, Greece.

5. **System or systems of assessment and verification of constancy of performance:** System 2+

6. **SINTEF (Notified Body 1071)** performed the initial inspection of the manufacturing plant and of factory production control and performs the continuous surveillance, assessment and evaluation of factory production control under System 2+ and issued the Certificate of Factory Production Control (1071-CPR-7027).

7. **Declared performance:**

Essential Characteristics	TEST METHOD	MEAN VALUE		TOLERANCE
Tensile Strength (MD/CD)	EN ISO 10319	kN/m	29/31	-3.8/-4.0
Elongation (MD/CD)	EN ISO 10319	%	60/70	±14/±16
Resistance to static puncture	EN ISO 12236	kN	5.5	-0.5
Dynamic Perforation resistance	EN ISO 13433	mm	9.5	+2.4
Pyramid puncture resistance	EN 14574	N	400	±40
Long Term Protection Efficiency	EN 13719	kN/m ²	19.6x10 ³	-20%
Characteristic Opening Size (O ₉₀)	EN ISO 12956	µm	60	±18
Water permeability V _{H50}	EN ISO 11058	l/(m ² s)	40	-12
Water flow capacity in the plane HG 1.0 at 20kPa	EN ISO 12958	l/m/sec*10 ⁴	31/160	-30%

Durability	To be covered within two weeks after installation. Predicted to be durable for up to 100 years in natural soils with 4≤pH≤9 and soil temperatures ≤25°C and is highly resistant to acidic and alkaline environments, based on a durability assessment (EN ISO 13438, procedure A, mod., 28d in water at 80°C followed by 112d in air at 100°C).
Dangerous substances	Less than required by national regulations in EU member states

8. The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer

Konstantinos Emmanouil



Quality Control Manager

Thrace Nonwovens & Geosynthetics S.A.