

Technical Data Sheet



140NW

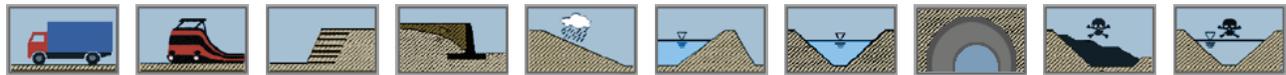


Certificate No: 0338-CPD-0693

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+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 | 12.0/12.0 |
| Elongation (MD/CD) | EN 10319 | Average | % | 45/45 |
| Resistance to static puncture | EN ISO 12236 | Average | N | 2000 |
| Dynamic Perforation resistance | EN ISO 13433 | Average | mm | 26 |
| HYDRAULIC | | | | |
| Characteristic Opening Size (O ₉₀) | EN ISO 12956 | Average | µm | 90 |
| Water permeability V _{LH50} | EN ISO 11058 | Average | m/sec*10 ⁻³ | 110 |
| Water flow rate | EN ISO 11058 | Average | l/m ² /sec | 110 |
| Water flow capacity in the plane (MD/CD) | HG 1.0 at 20kPa | EN ISO 12958 | Average | 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 ² | 140 |
| Thickness (2kPa) | EN 9863-1 | Average | mm | 1.1 |
| STANDARD PACKAGING | | | | |
| Roll Width/ Length | Measured | Typical | m | 5.4/100 |

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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