

## **Technical Data Sheet 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<br>trafficked areas | railways | earthworks, foundations and retaining structures | drainage<br>control | erosion<br>control | reservoirs<br>and dams | canals   | solid waste<br>disposal | liquid waste<br>containment |
|----------------------------|-------------------------------------|----------|--|---------------------|--------------------|------------------------|----------|-------------------------|-----------------------------|
| Technical<br>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                         |

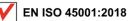
This product is resistant to commonly encountered soil chemicals, mildew and insects and is non-biodegradable. 140NW conforms to the property values listed below.

| PROPERTY                             |                       | TEST METHOD  | UNITS                      | NOMINAL<br>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 punct           | ture                  | EN ISO 12236 | N                          | 1650             | -150      |  |
| Dynamic Perforation resis            | stance                | EN ISO 13433 | mm                         | 30               | +6        |  |
| HYDRAULIC                            |                       |              |                            |                  |           |  |
| Characteristic Opening Si            | ze (O <sub>90</sub> ) | EN ISO 12956 | μm                         | 100              | ±30       |  |
| Water permeability VI <sub>H50</sub> |                       | EN ISO 11058 | mm/sec                     | 90               | -27       |  |
| Water flow rate                      |                       | EN ISO 11058 | l/(m²⋅sec)                 | 90               | -27       |  |
| M . (1                               | HG 1.0 at 20kPa       |              |                            | 35.1/34.5        | -30%      |  |
| Water flow capacity in the plane     | HG 1.0 at 100kPa      | EN ISO 12958 | 10 <sup>-3</sup> l/(m·sec) | 13.3/12.5        | -30%      |  |
| the plane                            | HG 1.0 at 200kPa      |              |                            | 6.3/4.8          | -30%      |  |
| PHYSICAL                             |                       |              |                            |                  |           |  |
| Mass/Unit Area                       |                       | EN ISO 9864  | gr/m²                      | 132              | ±13.2     |  |
| STANDARD PACKAGING                   | i                     |              |                            |                  |           |  |
| Roll Width/ Length                   |                       | Measured     | m                          | 6.0/100          | ±5%/±2%   |  |

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

EN ISO 50001:2018

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