



TRADITIONAL QUALITY NONWOVENS

DECLARATION OF PERFORMANCE

No.: MK HQ PP 300 / 2026

Polypropylene needle-punched non-woven fabric MOKRUTEX HQ PP

1. Unique identification code of the product-type:

MOKRUTEX HQ PP 300

2. Intended use/es: .

Needle-punched non-woven fabric for the construction of roads, railways, earthworks, tunnels, for the construction of dams, canals, drainage systems for the function of separation, filtration, reinforcement and protection (S, F, R, P)

3. Manufacturer:

RETEX a.s.
U nádraží 894
672 01 Moravský Krumlov, CZ
e: geo@retex.cz · i: www.retex.cz

4. Authorised representative:

...

5. System/s of AVCP:

System for assessing and verifying the durability of construction products: **2+**

6.a Notified body/ies: .

Textilní zkušební ústav s.p. - notified body 1021 has carried out an initial assessment of the production management system according to system 2 + carries out regular supervision of the production system and issued a certificate.

6.b European Technical Assessment:

...

7. Declared performance/s:

| Property | | Standard | Unit | Value | Tolerance | Harmonized standards |
|--|---------|--|---|----------|-----------|--|
| Tensile strenght | MD | EN ISO 10319 | kN/m | 25,6 | -1,1 | EN 13249:2016 EN 13250:2016 EN 13251:2016 EN 13252:2016 EN 13253:2016 EN 13254:2016 EN 13255:2016 EN 13256:2016 EN 13257:2016 EN 13265:2016 |
| | CMD | | kN/m | 28,3 | -1,1 | |
| Elongation | MD | EN ISO 10319 | % | 70 | ± 20 | |
| | CMD | | % | 80 | ± 20 | |
| Static puncture resistance (CBR) | | EN ISO 12236 | kN | 4,2 | -0,2 | |
| Dynamic perforation resistance (cone drop) | | EN ISO 13433 | mm | 5 | +2 | |
| Pyramidal test | | EN 14574 | N | 326,6 | -36,1 | |
| Characteristic opening size O_{90} | | EN ISO 12956 | μm | 86,7 | ± 15 | |
| Water permeability perpendicular to the plane of the geotextile V_{H50} | | EN ISO 11058 | $\text{l/m}^2 \cdot \text{s}$ | 56,1 | -23,4 | |
| Water permeability in the plane of the geotextile - gradient 0,1 / MD | 20 kPa | EN ISO 12958 | $\text{l/m} \cdot \text{s}$ | 9,08E-04 | -1,82E-04 | |
| | 100 kPa | | | 2,88E-04 | -5,76E-05 | |
| | 200 kPa | | | 1,26E-04 | -2,52E-05 | |
| Water permeability in the plane of the geotextile - gradient 1 / MD | 20 kPa | EN ISO 12958 | $\text{l/m} \cdot \text{s}$ | 9,64E-03 | -1,93E-03 | |
| | 100 kPa | | | 2,77E-03 | -5,54E-04 | |
| | 200 kPa | | | 1,27E-03 | -2,54E-04 | |
| Maximum allowed time between installation and covering of the geosynthetic | | EN ISO 12224 | It must be covered within 1 month after laying. | | | |
| Oxidation resistance | | EN ISO 13438 | % | >76,4 | min 50 | |
| Protection efficiency | | EN 13719 | % | 2,25 | ± 0,45 | |
| Dangerous substances | | Less than required by nationla regulations in EU Member States | | | | National Regulations in force in EU Member States |

A durability of 100 years is assumed in natural soils with a value of $4 < \text{pH} < 9$ and soil temperatures $< 25^\circ \text{C}$.

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

...

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 by:
Moravský Krumlov: 27.5.2026

Ing. Robert Šimek, Ph.D.
Chairman of the Board



TRADITIONAL QUALITY NONWOVENS

DECLARATION OF PERFORMANCE

No.: MK HQ PP 350 / 2026

Polypropylene needle-punched non-woven fabric MOKRUTEX HQ PP

1. Unique identification code of the product-type:

MOKRUTEX HQ PP 350

2. Intended use/es: .

Needle-punched non-woven fabric for the construction of roads, railways, earthworks, tunnels, for the construction of dams, canals, drainage systems for the function of separation, filtration, reinforcement and protection (S, F, R, P)

3. Manufacturer:

RETEX a.s.
U nádraží 894
672 01 Moravský Krumlov, CZ
e: geo@retex.cz · i: www.retex.cz

4. Authorised representative:

...

5. System/s of AVCP:

System for assessing and verifying the durability of construction products: 2+

6.a Notified body/ies: .

Textilní zkušební ústav s.p. - notified body 1021 has carried out an initial assessment of the production management system according to system 2 + carries out regular supervision of the production system and issued a certificate.

6.b European Technical Assessment:

...

7. Declared performance/s:

| Property | | Standard | Unit | Value | Tolerance | Harmonized standards |
|--|---------|--|---|----------|-----------|--|
| Tensile strenght | MD | EN ISO 10319 | kN/m | 29,9 | -1,3 | EN 13249:2016 EN 13250:2016 EN 13251:2016 EN 13252:2016 EN 13253:2016 EN 13254:2016 EN 13255:2016 EN 13256:2016 EN 13257:2016 EN 13265:2016 |
| | CMD | | kN/m | 33 | -1,3 | |
| Elongation | MD | EN ISO 10319 | % | 70 | ± 20 | |
| | CMD | | % | 80 | ± 20 | |
| Static puncture resistance (CBR) | | EN ISO 12236 | kN | 4,9 | -0,2 | |
| Dynamic perforation resistance (cone drop) | | EN ISO 13433 | mm | 4 | +2 | |
| Pyramidal test | | EN 14574 | N | 326,6 | -36,1 | |
| Characteristic opening size O_{90} | | EN ISO 12956 | μm | 72 | ± 15 | |
| Water permeability perpendicular to the plane of the geotextile V_{H50} | | EN ISO 11058 | $\text{l/m}^2 \cdot \text{s}$ | 36,8 | -7,8 | |
| Water permeability in the plane of the geotextile - gradient 0,1 / MD | 20 kPa | EN ISO 12958 | $\text{l/m} \cdot \text{s}$ | 1,31E-03 | -2,62E-04 | |
| | 100 kPa | | | 6,78E-04 | -1,36E-04 | |
| | 200 kPa | | | 4,06E-04 | -8,12E-05 | |
| Water permeability in the plane of the geotextile - gradient 1 / MD | 20 kPa | EN ISO 12958 | $\text{l/m} \cdot \text{s}$ | 1,29E-02 | -2,58E-03 | |
| | 100 kPa | | | 6,45E-03 | -1,29E-03 | |
| | 200 kPa | | | 4,52E-03 | -9,04E-04 | |
| Maximum allowed time between installation and covering of the geosynthetic | | EN ISO 12224 | It must be covered within 1 month after laying. | | | |
| Oxidation resistance | | EN ISO 13438 | % | >76,4 | min 50 | |
| Protection efficiency | | EN 13719 | % | 2,25 | ± 0,45 | |
| Dangerous substances | | Less than required by nationla regulations in EU Member States | | | | National Regulations in force in EU Member States |

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