



DECLARATION OF CHARACTERISTICS

Number: **MK HQ PP 350 / 2020 - 1**

Polypropylene needle punched nonwoven geotextile Mokrutex HQ PP

1.

MOKRUTEX HQ PP 350

2.

Needle punched nonwoven geotextile used for building of motorways, railways, land buildings, bulding of dams, canals and drainage systems with separation and filtration function (S, F, R, P)

3.

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5.

System for adjudication and verification of building products : **2+**

6.a

Textilní zkušební ústav s.p. - notified subjekt 1021 executed initial adjudication of production management system in accordance with system 2 +, performs regular witness on the production system and issued certificate No. 1021-CPR - 100 - 1/17

| Character | Norm | Unit | Mean value | Tolerance | Harmonic technic norm | |
|---|---------------|--|----------------------|-------------------------|--------------------------------------|---------------|
| Square weight | EN ISO 9864 | g/m ² | 350 | ± 10 % | EN 13249:2016 | |
| Strength | MD | EN ISO 10319 | kN/m | 27 | - 1 | EN 13250:2016 |
| | CMD | | kN/m | 27 | - 1 | EN 13251:2016 |
| Tensibility | MD | EN ISO 10319 | % | 80 | ± 20 | EN 13252:2016 |
| | CMD | | % | 80 | ± 20 | EN 13253:2016 |
| Thickness 2 kPa | EN ISO 9863-1 | mm | 3,5 | ± 15 % | EN 13254:2016 | |
| Static puncture - CBR test | EN ISO 12236 | kN | 4,3 | - 0.1 | EN 13255:2016 | |
| Dynamic puncture - cone drop test | EN ISO 13433 | mm | 4 | + 2 | EN 13256:2016 | |
| Determination of the pyramid puncture resistance | EN 14574 | N | 286 | - 20 | EN 13257:2016 | |
| Characteristic opening size O ₉₀ | EN ISO 12956 | µm | 86,7 | ± 15 | EN 13265:2016 | |
| Determination of water permeability characteristics normal to the plane V _{H50} | EN ISO 11058 | l/m ² . s | 41,0 | - 8.2 | | |
| Determination of water flow capacity in their plane - gradient 0.1 / longitudinal direction | 20 kPa | EN ISO 12958 | l/m ² . s | 1.59 x 10 ⁻³ | ± 15 % | |
| | 100 kPa | | | 5.80 x 10 ⁻⁴ | | |
| | 200 kPa | | | 1.30 x 10 ⁻⁴ | | |
| Determination of water flow capacity in their plane - gradient 0.1 / longitudinal direction | 20 kPa | EN ISO 12958 | l/m ² . s | 1.73 x 10 ⁻² | | |
| | 100 kPa | | | 4.34 x 10 ⁻³ | | |
| | 200 kPa | | | 3.30 x 10 ⁻³ | | |
| Resistance to weather conditions | EN ISO 12224 | Must be covered within 1 month after being placed. | | | | |
| Determination of durability (resistance to oxidation) | MD | EN ISO 13438 | 90,90% | | min 50% | |
| | CMD | | 76,40% | | | |
| Determination of the long term protection efficiency 300 kPa | EN 13719 | % | 2,25 | ± 10 % | | |
| Dangerous substances | | Less than EU states requirements | | | Valid national regulations EU states | |

It is assumed durable for 100 years in natural soils with 4 < pH ≤ 9 with soil temperature ≤ 25 °C.

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Characteristics of the above mentioned product are in accordance with complex of declared characteristics. This declation of characteristics is in accordance with EU directive No. 305/2011 issued in responsibility of producer mentioned above.

Signed by the manufacturer and his name:
In Moravský Krumlov : 27.5.2020

Ing. Robert Šimek, Ph.D.
Chairman of the board of directors