



DECLARATION OF PERFORMANCE

No.: **MK HQ PP 350 / 2024**

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:

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7. Declared performance/s:

Property	Standard	Unit	Value	Tolerance	Harmonized standards
Tensile strenght	MD	kN/m	27	-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	27	-1	
Elongation	MD	%	80	± 20	
	CMD	%	80	± 20	
Static puncture resistance (CBR)	EN ISO 12236	kN	4,3	-0,1	
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	4	+2	
Pyramidal test	EN 14574	N	286	-20	
Characteristic opening size O_{90}	EN ISO 12956	μm	86,7	± 15	
Water permeability perpendicular to the plane of the geotextile $V_{l_{H50}}$	EN ISO 11058	$\text{l/m}^2 \cdot \text{s}$	41	-8,2	
Water permeability in the plane of the geotextile - gradient 0,1 / MD	20 kPa	$\text{l/m} \cdot \text{s}$	$1,59 \times 10^{-3}$	$-3,18 \times 10^{-4}$	
	100 kPa		$5,80 \times 10^{-4}$	$-1,16 \times 10^{-4}$	
	200 kPa		$1,30 \times 10^{-4}$	$-2,6 \times 10^{-5}$	
Water permeability in the plane of the geotextile - gradient 1 / MD	20 kPa	$\text{l/m} \cdot \text{s}$	$1,73 \times 10^{-2}$	$-3,46 \times 10^{-3}$	
	100 kPa		$4,34 \times 10^{-3}$	$-8,68 \times 10^{-4}$	
	200 kPa		$3,30 \times 10^{-3}$	$-6,6 \times 10^{-4}$	
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:

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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

Signed for and on behalf of the manufacturer by: Ing. Robert Šimek, Ph.D.
Moravský Krumlov: 30.1.2024 Chairman of the Board