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## DECLARATION OF CHARACTERISTICS

Number: **MK HQ PES 700 / 2020 - 1**

Polyester needle punched nonwoven geotextile Mokrutex HQ PES

1.

### MOKRUTEX HQ PES 700

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, P, D)

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

7.

Character	Norm	Unit	Mean value	Tolerance	Harmonic technic norm	
Square weight	EN ISO 9864	g/m <sup>2</sup>	700	± 10 %	EN 13249:2016	
Strength	EN ISO 10319	MD	kN/m	30	- 3	EN 13250:2016
		CMD	kN/m	38	- 3	EN 13251:2016
Tensibility	EN ISO 10319	MD	%	100	± 20	EN 13252:2016
		CMD	%	100	± 20	EN 13253:2016
Thickness 2 kPa	EN ISO 9863-1	mm	5	± 15 %	EN 13254:2016	
Static puncture - CBR test	EN ISO 12236	kN	5	- 0.2	EN 13255:2016	
Dynamic puncture - cone drop test	EN ISO 13433	mm	3	+ 1.0	EN 13256:2016	
Determination of the pyramid puncture resistance	EN 14574	N	405.8	- 40	EN 13257:2016	
Characteristic opening size O <sub>90</sub>	EN ISO 12956	µm	71	± 15	EN 13265:2016	
Determination of water permeability characteristics normal to the plane V <sub>IH50</sub>	EN ISO 11058	l/m <sup>2</sup> . s	45.7	- 6.4		
Determination of water flow capacity in their plane - gradient 0.1 / longitudinal direction	EN ISO 12958	l/m <sup>2</sup> . s	20 kPa	6.40 x 10 <sup>-4</sup>	± 20 %	
			100 kPa	3.80 x 10 <sup>-4</sup>		
			200 kPa	8.60 x 10 <sup>-5</sup>		
Determination of water flow capacity in their plane - gradient 0.1 / longitudinal direction	EN ISO 12958	l/m <sup>2</sup> . s	20 kPa	1.34 x 10 <sup>-2</sup>		
			100 kPa	4.59 x 10 <sup>-3</sup>		
			200 kPa	3.21 x 10 <sup>-3</sup>		
Resistance to weather conditions	EN ISO 12224	Must be covered within 2 weeks after being placed.				
Determination of the long term protection efficiency 300 kPa	EN 13719	%	2.31	± 10 %		
Dangerous substances		Less than EU states requirements			Valid national regulations EU states	

It is assumed durable for 50 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 : 26.5.2020

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