



DECLARATION OF CHARACTERISTICS

Number: **MK PP 400 / 2018 - 2**

Polyester needle punched nonwoven geotextile Mokrutex PP

1. **MOKRUTEX PP 400**

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)

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

4. ...
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 ²	400	± 15 %	EN 13249:2016
Strength	MD	EN ISO 10319	kN/m	12	- 1	EN 13250:2016
	CMD		kN/m	19	- 1	EN 13251:2016
Tensibility	MD	EN ISO 10319	%	105	± 20	EN 13252:2016
	CMD		%	100	± 20	EN 13253:2016
Thickness 2 kPa		EN ISO 9863-1	mm	4,1	± 15 %	EN 13254:2016
Static puncture - CBR test		EN ISO 12236	kN	2,7	- 0,2	EN 13255:2016
Dynamic puncture - cone drop test		EN ISO 13433	mm	5	+ 2	EN 13256:2016
Characteristic opening size O ₉₀		EN ISO 12956	µm	79	± 15	EN 13257:2016
Determination of water permeability characteristics normal to the plane V _{IH50}		EN ISO 11058	l/m ² · s	36,1	- 20	EN 13265:2016
Resistance to weather conditions		EN ISO 12224	Cover on day of lay down			
Determining the resistance to oxidation	MD	EN ISO 13438	92.70 %		± 10 %	
	CMD		94.50 %			
Dangerous substances			Less than EU states requirements			Valid national regulations EU states

It is assumed that nonwoven will be durable for a minimum of 25 years in natural soils with 4<pH<9 with soil temperature < 25 °C.

8. ...

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 : 23.09.2021

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