CE

DECLARATION OF CHARACTERISTICS

Number: **MK HQ PP K 400 / 2020**

Polypropylene needlepunched calendered nonwoven geotextile Mokrutex HQ PP K

1. **MOKRUTEX HQ PP K 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, reinforcement, protection drainage function (S, F, R, P, D)

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

4. ...

5. System for adjudicatation 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 +, performes 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	± 10 %	EN 13249:2016
Strength	MD	EN ISO 10319	kN/m	31	- 1	EN 13250:2016
	CMD		kN/m	31	- 1	EN 13251:2016
Tensibility	MD	EN ISO 10319	%	70	± 15	EN 13252:2016
	CMD		%	80	± 15	EN 13253:2016
Thickness 2 kPa		EN ISO 9863-1	mm	2,2	± 15 %	EN 13254:2016
Static puncture - CBR test		EN ISO 12236	kN	5,5	- 0.1	EN 13255:2016
Dynamic puncture - cone drop test		EN ISO 13433	mm	6	+ 2	EN 13256:2016
Determination of the pyramid puncture resistance		EN 14574	N	468,3	- 20	EN 13257:2016
Characteristic opening size O_{90}		EN ISO 12956	µm	62	± 15	EN 13265:2016
Determination of water permeability characteristics normal to the plane VI_{H50}		EN ISO 11058	$l/m^2 . s$	7,7	-1.4	
Determination of water flow capacity in their plane - gradient 0.1 / longitudinal direction	20 kPa	EN ISO 12958	$l/m^2 . s$	1.68×10^{-4}	± 15 %	
	100 kPa			1.18×10^{-4}		
	200 kPa			1.03×10^{-4}		
Determination of water flow capacity in their plane - gradient 0.1 / longitudinal direction	20 kPa	EN ISO 12958	$l/m^2 . s$	1.76×10^{-3}		
	100 kPa			1.12×10^{-3}		
	200 kPa			1.01×10^{-3}		
Resistance to weather conditions		EN ISO 12224	Must be covered within 1 month after being placed.			
Determining the resistance to oxidation	MD	EN ISO 13438	84.70 %		-	
	CMD		80.00 %			
Determination of the long term protection efficiency 300 kPa		EN 13719	%	1,56	± 1.6	
Dangerous substances			Less than EU states requirements			Valid national regulations EU states

It is assumed that nonwoven will be durable for a minimum of 100 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 : 05.03.2021

Ing. Robert Šimek, Ph.D.

Chairman of the executive board