



SINCE  
**1950**

# MOKRUTEX HQ PES K

Calendered nonwoven geotextile



1021 - CPR – 100-1/17



- Characteristic:** Nonwoven textile mechanically bonded by needle punching and thermally by calender
- Material content:** 100 % polyester staple fibre
- Color:** White
- Weight:** 200 - 500 g/m<sup>2</sup>
- Maximum width:** 6,5 m
- Function:**



SEPARATION



FILTRATION



DRAINAGE



PROTECTION



REINFORCEMENT

## Use:

ROADS AND OTHER  
TRAFFICED AREAS



EN 13249:2016

RAILWAYS



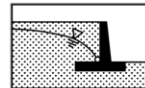
EN 13250:2016

EARTHWORKS, FOUNDATIONS,  
AND RETAINING WALLS



EN 13251:2016

DRAINAGE  
SYSTEMS



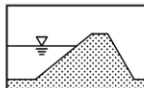
EN 13252:2016

EROSION  
CONTROL



EN 13253:2016

RESERVOIRS AND DAMS



EN 13254:2016

CANALS



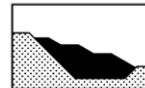
EN 13255:2016

TUNNELS AND  
UNDERGROUND STRUCTURES



EN 13256:2016

SOLID WASTE DISPOSALS



EN 13257:2016

LIQUID WASTE  
CONTAINMENT



EN 13265:2016

Material specification sheet

Date: 08. 10. 2025



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# TRADITIONAL QUALITY NONWOVENS

Material specification sheet

Date: 08. 10. 2025

## MOKRUTEX HQ PES K

Calendered nonwoven geotextile

| MOKRUTEX HQ PES K                                                                            |                  |                     | 200                                                                                          | 300                                               | 500                   |
|----------------------------------------------------------------------------------------------|------------------|---------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------|
|                                                                                              |                  |                     |                                                                                              |                                                   |                       |
| PHYSICAL PROPERTIES                                                                          |                  |                     |                                                                                              |                                                   |                       |
| Weight [±10 %] / EN ISO 9864                                                                 | g/m <sup>2</sup> |                     | 200                                                                                          | 300                                               | 500                   |
| Thickness 2 kPa [±15 %] / EN ISO 9863-1                                                      | mm               |                     | 1                                                                                            | 1,2                                               | 2,1                   |
| MECHANICAL PROPERTIES                                                                        |                  |                     |                                                                                              |                                                   |                       |
| Tensile strenght / EN ISO 10319                                                              | MD               | kN/m                | 7-1                                                                                          | 11-1                                              | 21-2                  |
|                                                                                              | CMD              |                     | 7-1                                                                                          | 11-1                                              | 21-2                  |
| Elongation [±20 %] / EN ISO 10319                                                            | MD               | %                   | 75                                                                                           | 75                                                | 80                    |
|                                                                                              | CMD              |                     | 90                                                                                           | 90                                                | 90                    |
| Resistance to static puncture - CBR test / EN ISO 12236                                      |                  | kN                  | 1-0,1                                                                                        | 1,7-0,1                                           | 3,1-0,2               |
| Dynamic perforation test (cone drop test) / EN ISO 13433                                     |                  | mm                  | 24+2                                                                                         | 18+2                                              | 9+1                   |
| Pyramid puncture resistance [-20] / EN ISO 14574                                             |                  | N                   | 193                                                                                          | 230                                               | 349                   |
| HYDRAULIC PROPERTIES                                                                         |                  |                     |                                                                                              |                                                   |                       |
| Characteristic opening size 090 / EN ISO 12956 [±15 ]                                        |                  | µm                  | 79                                                                                           | 75                                                | 61                    |
| Water permeability normal to the plane VIH50 / EN ISO 11058                                  |                  | l/m <sup>2</sup> .s | 6,54-2,5                                                                                     | 3,5-2,1                                           | 2,46-1,2              |
| Water permeability in the plane (longitudinal direction) gradient 0,1 [±15 %] / EN ISO 12958 | 20 kPa           | l/m.s               | 1,39·10 <sup>-4</sup>                                                                        | 2,41·10 <sup>-4</sup>                             | 3,15·10 <sup>-4</sup> |
|                                                                                              | 100 kPa          |                     | 6,28·10 <sup>-5</sup>                                                                        | 8,52·10 <sup>-5</sup>                             | 1,9·10 <sup>-4</sup>  |
|                                                                                              | 200 kPa          |                     | 3,28·10 <sup>-5</sup>                                                                        | 5,18·10 <sup>-5</sup>                             | 1,42·10 <sup>-4</sup> |
| Water permeability in the plane (longitudinal direction) gradient 1 [±15 %] / EN ISO 12958   | 20 kPa           | l/m.s               | 1,43·10 <sup>-3</sup>                                                                        | 2,27·10 <sup>-3</sup>                             | 3,33·10 <sup>-3</sup> |
|                                                                                              | 100 kPa          |                     | 6,38·10 <sup>-4</sup>                                                                        | 1,06·10 <sup>-3</sup>                             | 1,94·10 <sup>-3</sup> |
|                                                                                              | 200 kPa          |                     | 2,92·10 <sup>-4</sup>                                                                        | 5,61·10 <sup>-4</sup>                             | 1,38·10 <sup>-3</sup> |
| ENDURANCE                                                                                    |                  |                     |                                                                                              |                                                   |                       |
| Protection efficiency [±10 %] / EN 13719                                                     | 300 kPa          | %                   | 2,1                                                                                          | 1,71                                              | 1,39                  |
| Resistance to weathering 12224                                                               |                  | / EN ISO            | It must be covered on the day after being placed                                             | Must be covered within 2 weeks after being placed |                       |
| Life expectancy                                                                              |                  |                     | Min. 25 years in natural soils with 4<pH<9 with soil temperature < 25 °C.                    |                                                   |                       |
| FUNCTION                                                                                     |                  |                     |                                                                                              |                                                   |                       |
| Separation                                                                                   |                  | S                   | X                                                                                            | X                                                 | X                     |
| Filtration                                                                                   |                  | F                   | X                                                                                            | X                                                 | X                     |
| Dranaige                                                                                     |                  | D                   | X                                                                                            | X                                                 | X                     |
| Reinforcement                                                                                |                  | R                   | X                                                                                            | X                                                 | X                     |
| Protection                                                                                   |                  | P                   | X                                                                                            | X                                                 | X                     |
| CHARACTERISTICS                                                                              |                  |                     |                                                                                              |                                                   |                       |
| Description                                                                                  |                  |                     | Nonwoven textile mechanically bonded by needle punching                                      |                                                   |                       |
| Material content                                                                             |                  |                     | 100 % polyester staple fibre                                                                 |                                                   |                       |
| Color                                                                                        |                  |                     | White,Black                                                                                  |                                                   |                       |
| DIMENSION, PACKAGING AND STORAGE                                                             |                  |                     |                                                                                              |                                                   |                       |
| Roll width                                                                                   |                  | m                   | 6,5                                                                                          | 6,5                                               | 6,5                   |
| Roll lenght                                                                                  |                  | m                   | 50                                                                                           | 50                                                | 25                    |
| Packaging                                                                                    |                  |                     | Rolls are packed in PE foil, and according to the requirements can be wind up on paper tubes |                                                   |                       |
| Storage                                                                                      |                  |                     | In covered, clean and dry spaces                                                             |                                                   |                       |

The above technical parameters are average values and serve for general information. The manufacturer reserves the right to change it.