

# Technical Data Sheet

## EnkaDrain™ 5004C/5-2s/M110PP Data Sheet



EnkaDrain™ is a three-dimensional composite made of a drainage core connected to durable nonwoven filters. The high performance drainage core is made of polymeric monofilaments spun into a pyramid or V shape configuration. This resulting structure is very open, ensuring maximum drainage capacity, and is compression-resistant with over 90% voids. Structural drainage systems have to provide the discharge capacity required under the maximum compressive stress of the relevant project.

| Properties geocomposite                               | Test Method   | Unit              | EnkaDrain™ 5004C/5-2s/M110PP             |
|-------------------------------------------------------|---------------|-------------------|------------------------------------------|
| Polymer                                               |               |                   | PP                                       |
| Weight                                                | EN ISO 9864   | g/cm <sup>2</sup> | 720                                      |
| Thickness under 2 kPa                                 | EN ISO 9863-1 | mm                | 4.5                                      |
| Tensile Strength - MD                                 | EN ISO 10319  | kN/m              | 16                                       |
| Static puncture resistance (CBR)                      | EN ISO 12236  | kN                | 3                                        |
| Hydraulic gradient                                    | Load kPa      |                   | Flow capacity (EN ISO 12958), rigid/foam |
| i = 1                                                 | 20            | m <sup>2</sup> /s | 1 x 10 <sup>-3</sup>                     |
|                                                       | 50            | m <sup>2</sup> /s | 0.90 x 10 <sup>-3</sup>                  |
|                                                       | 100           | m <sup>2</sup> /s | 0.82 x 10 <sup>-3</sup>                  |
|                                                       | 200           | m <sup>2</sup> /s | 0.75 x 10 <sup>-3</sup>                  |
| i = 0.1                                               | 20            | m <sup>2</sup> /s | 0.20 x 10 <sup>-3</sup>                  |
|                                                       | 50            | m <sup>2</sup> /s | 0.17 x 10 <sup>-3</sup>                  |
|                                                       | 100           | m <sup>2</sup> /s | 0.15 x 10 <sup>-3</sup>                  |
|                                                       | 200           | m <sup>2</sup> /s | 0.14 x 10 <sup>-3</sup>                  |
| i = 0.03                                              | 20            | m <sup>2</sup> /s | 0.08 x 10 <sup>-3</sup>                  |
|                                                       | 50            | m <sup>2</sup> /s | 0.07 x 10 <sup>-3</sup>                  |
|                                                       | 100           | m <sup>2</sup> /s | 0.05 x 10 <sup>-3</sup>                  |
|                                                       | 200           | m <sup>2</sup> /s | 0.04 x 10 <sup>-3</sup>                  |
| Properties fleece                                     | Test Method   | Unit              | EnkaDrain™ 5004C/5-2s/M110PP             |
| Dynamic perforation resistance (cone drop) top fleece | EN ISO 13433  | mm                | 32                                       |
| Static puncture resistance (CBR)                      | EN ISO 12236  | kN                | 1.5                                      |
| Characteristic opening size (O90)                     | EN ISO 12956  | µm                | 95                                       |
| Water permeability normal to the plane (Vlh50)        | EN ISO 11058  | mm/s              | 100                                      |
| Dimensions                                            |               | Unit              | EnkaDrain™ 5004C/5-2s/M110PP             |
| Width x Length                                        |               | m                 | 5 x 100                                  |
| Length / diameter of roll                             |               | m                 | 5.3 x 0.8                                |
| Gross weight                                          |               | kg                | 391                                      |

Maximum allowed time between installation and covering of the geosynthetic: 2 weeks



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