

# Technical Data Sheet

## EnkaDrain™ CKL10B Data Sheet



EnkaDrain™ composites consist of a three-dimensional monofilament structure (the drainage core) which is bonded to a protective, filtering or laticence-tight nonwoven on one or both sides. The number of attached nonwovens is referred to as 1s (1 side) or 2s (2 sides) in the product typology. The drainage core can be pyramidal or v-shaped and can be made from different polymers. All EnkaDrain™ types are lightweight, flexible, and easy to cut. They have no shape memory and have good load distribution.

| Properties geocomposite                               | Test Method        | Unit        | EnkaDrain™ CKL10B                               |
|-------------------------------------------------------|--------------------|-------------|-------------------------------------------------|
| Polymer                                               |                    |             | PP/PET/PA                                       |
| Weight                                                | EN ISO 9864        | g/cm²       | 615                                             |
| Thickness under 2 kPa                                 | EN ISO 9863-1      | mm          | 10                                              |
| Tensile Strength - MD                                 | EN ISO 10319       | kN/m        | 15                                              |
| Static puncture resistance (CBR)                      | EN ISO 12236       | kN          | 0.75                                            |
| <b>Hydraulic gradient</b>                             | <b>Load kPa</b>    |             | <b>Flow capacity (EN ISO 12958), foam/rigid</b> |
| i = 1                                                 | 20                 | m²/s        | 2.1 x 10 <sup>-3</sup>                          |
|                                                       | 50                 | m²/s        | 1.04 x 10 <sup>-3</sup>                         |
|                                                       | 100                | m²/s        | 0.39 x 10 <sup>-3</sup>                         |
|                                                       | 200                | m²/s        | 0.15 x 10 <sup>-3</sup>                         |
| i = 0.1                                               | 20                 | m²/s        |                                                 |
|                                                       | 50                 | m²/s        |                                                 |
|                                                       | 100                | m²/s        |                                                 |
|                                                       | 200                | m²/s        |                                                 |
| i = 0.03                                              | 20                 | m²/s        |                                                 |
|                                                       | 50                 | m²/s        |                                                 |
|                                                       | 100                | m²/s        |                                                 |
|                                                       | 200                | m²/s        |                                                 |
| <b>Properties fleece</b>                              | <b>Test Method</b> | <b>Unit</b> | <b>EnkaDrain™ CKL10B</b>                        |
| Dynamic perforation resistance (cone drop) top fleece | EN ISO 13433       | mm          | 45                                              |
| Static puncture resistance (CBR)                      | EN ISO 12236       | kN          | 0.75                                            |
| Characteristic opening size (O90)                     | EN ISO 12956       | µm          | 170                                             |
| Water permeability normal to the plane (Vlh50)        | EN ISO 11058       | mm/s        | 100                                             |
| <b>Dimensions</b>                                     |                    | <b>Unit</b> | <b>EnkaDrain™ CKL10B</b>                        |
| Width x Length                                        |                    | m           | 1 x 45                                          |
| Length / diameter of roll                             |                    | m           | 1.03 x 0.85                                     |
| Gross weight                                          |                    | kg          | 30                                              |

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



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This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge becomes available. Since we cannot anticipate all variations in actual end use conditions, Geosynthetics Limited makes no warranties and assumes no liabilities in connection with this information. Nothing in this publication is to be considered as a licence to operate under or a recommendation to infringe any patent right.



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