

Rock PEC - Geocomposites

Technical Data

TenCate Polyfelt Rock PEC biaxial geocomposites are engineered materials suitable for subgrade stabilisation and base reinforcement applications. They are composed of high modulus polyester fibres, attached to a continuous filament nonwoven geotextile backing.



TenCate Polyfelt Rock PEC

| Properties <small>[Standard]</small> | Unit | PEC 35/35 | PEC 55/50 | PEC 75/75 | PEC 95/95 | |
|--|---------|------------------------------------|-----------|-----------|-----------|-----|
| Mechanical Properties | | | | | | |
| Tensile strength <small>[EN ISO 10319]</small> | MD | kN/m | 37 | 58 | 79 | 100 |
| | min | kN/m | 35 | 55 | 75 | 95 |
| | CD | kN/m | 37 | 53 | 79 | 100 |
| | min | kN/m | 35 | 50 | 75 | 95 |
| Elongation at nominal strength <small>[EN ISO 10319]</small> | MD | % | 10 | 10 | 10 | 10 |
| | CD | % | 10 | 10 | 10 | 10 |
| Tensile strength at 2% 3% 5% <small>[EN ISO 10319]</small> | MD & CD | kN/m | 7.5 | 11.5 | 16 | 20 |
| | MD & CD | kN/m | 10 | 16 | 22 | 27 |
| | MD & CD | kN/m | 17 | 22 | 37 | 46 |
| | | | | | | |
| Hydraulic Properties | | | | | | |
| Water permeability normal to the plane <small>[EN ISO 11058 - Δh = 50 mm]</small> | | l/m ² s (mm/s) | 55 | 55 | 55 | 55 |
| Water flow capacity in the plane <small>[EN ISO 12958]</small> | 20 kPa | 10 ⁻⁷ m ² /s | 20 | 20 | 20 | 20 |
| Characteristic opening size O ₉₀ <small>[EN ISO 12956]</small> | | μm | 95 | 95 | 95 | 95 |
| Forms of Supply | | | | | | |
| Roll width | | m | 5.3 | 5.3 | 5.3 | 5.3 |
| Roll length | | m | 100 | 100 | 100 | 100 |
| Roll weight | | kg | 201 | 222 | 259 | 296 |

MD = machine direction / CD = cross direction min: These values are given within the 95% confidence level. Other forms of supply as well as grades, adjusted to the requirements of the project, are available on request.

For information concerning long term design strength, friction behaviour or other product properties please contact Ten Cate Geosynthetics.

The values given are average values obtained in our laboratories and in accredited testing institutes. The information given in this datasheet is to the best of our knowledge true and correct. However new research results and practical experience can make revisions necessary. The right is reserved to make changes without notice at any time. No guarantee or liability can be drawn from the information mentioned herein.

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