

# TenCate Rock<sup>®</sup> PEC

## Technical Data

TenCate Rock<sup>®</sup> 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 Rock<sup>®</sup> PEC

| Properties [Standard]   | Unit                      | PEC 40/40                          | PEC 55/55 | PEC 75/75 | PEC 95/95 |     |    |
|---|---------------------------|------------------------------------|-----------|-----------|-----------|-----|----|
| <b>Mechanical Properties</b>  |                           |                                    |           |           |           |     |    |
| Tensile strength<br>[EN ISO 10319]                                    | MD                        | kN/m                               | 42        | 58        | 79        | 100 |    |
|   | min                       | kN/m                               | 40        | 55        | 75        | 95  |    |
|   | CD                        | kN/m                               | 42        | 58        | 79        | 100 |    |
|   | min                       | kN/m                               | 40        | 55        | 75        | 95  |    |
| Elongation at nominal strength<br>[EN ISO 10319]                      | MD                        | %                                  | 10        | 10        | 10        | 10  |    |
|   | CD                        | %                                  | 10        | 10        | 10        | 10  |    |
| Tensile strength at<br>[EN ISO 10319]                                 | 2%                        | MD & CD                            | kN/m      | 9         | 13        | 18  | 22 |
|   | 3%                        | MD & CD                            | kN/m      | 13        | 19        | 25  | 33 |
|   | 5%                        | MD & CD                            | kN/m      | 23        | 30        | 40  | 54 |
| <b>Hydraulic Properties</b>   |                           |                                    |           |           |           |     |    |
| Water permeability normal to the plane<br>[EN ISO 11058 - Δh = 50 mm] | l/m <sup>2</sup> s (mm/s) |                                    | 55        | 55        | 55        | 55  |    |
| Water flow capacity in the plane<br>[EN ISO 12958]                    | 20 kPa                    | 10 <sup>-7</sup> m <sup>2</sup> /s | 20        | 20        | 20        | 20  |    |
| Characteristic opening size O <sub>90</sub><br>[EN ISO 12958]         |                           | μm                                 | 95        | 95        | 95        | 95  |    |
| <b>Forms of Supply</b>  |                           |                                    |           |           |           |     |    |
| Roll width  |                           | m                                  | 5.3       | 5.3       | 5.3       | 5.3 |    |
| Roll length   |                           | m                                  | 100       | 100       | 100       | 100 |    |
| Roll weight [indicative]  |                           | kg                                 | 200       | 225       | 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 TenCate 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.

**TENCATE GEOSYNTHETICS AUSTRIA GMBH**

Schachermayerstr. 18 Tel. +43 732 6983 0, Fax +43 732 6983 5353  
A-4021 Linz, Austria service.at@tencategeo.com, www.tencategeo.at

**BeNeLux** Tel. +31 546 544 811 service.nl@tencategeo.com  
**Central Eastern Europe** Tel. +43 732 6983 0 service.at@tencategeo.com  
**Czech Republic** Tel. +420 2 2425 1843 service.cz@tencategeo.com  
**France | Africa** Tel. +33 1 34 23 53 63 service.fr@tencategeo.com  
**Germany** Tel. +49 30 3435 02 10 service.de@tencategeo.com  
**Italy** Tel. +39 0362 34 58 11 service.it@tencategeo.com  
**Near Middle East** Tel. +971 4810 3295 service.nme@tencategeo.com

**Poland** service.pl@tencategeo.com  
**Russia | CIS** service.ru@tencategeo.com  
**Scandinavia | Baltics** geo.nordic@tencategeo.com  
**Spain | Portugal** service.es@tencategeo.com  
**Switzerland** service.ch@tencategeo.com  
**Turkey** service.tr@tencategeo.com  
**UK | Ireland** service.uk@tencategeo.com

Tel. +33 1 34 23 53 63 service.pl@tencategeo.com  
Tel. +43 732 6983 0 service.ru@tencategeo.com  
Tel. +31 546 544 811 geo.nordic@tencategeo.com  
Tel. +34 607 499 962 service.es@tencategeo.com  
Tel. +49 30 3435 02 10 service.ch@tencategeo.com  
Tel. +43 732 5983 0 service.tr@tencategeo.com  
Tel. +44 1952 588 066 service.uk@tencategeo.com



TenCate Geosynthetics Austria Gesm.b.H, TenCate Geosynthetics France S.A.S and TenCate Geosynthetics Netherlands b.v. are certified for the design, manufacturing and sales of geotextile and geotextile related products.