TENCATE
Polyfelt

Rock PEC - Geocomposites
Technical Data

TenCate Polyfelt Rock PEC uniaxial geocomposites are engineered materials suitable for short and long term soil reinforcement applications. They are composed of high modulus polyester fibres, attached to a continuous filament nonwoven geotextile backing.

TenCate Polyfelt Rock PEC

Properties [Standard]		Unit	PEC 35	PEC 55	PEC 75	PEC 95	PEC 125	PEC 150	PEC 180	PEC 230
Mechanical Properties										
Tensile strength	MD	kN/m	37	58	79	100	132	158	190	242
[EN ISO 10319]	min	kN/m	35	55	75	95	125	150	180	230
	CD	kN/m	12	12	12	12	12	12	12	12
Elongation at nominal strength	MD	%	10	10	10	10	10	10	10	10
[EN ISO 10319]	CD	%	85	85	85	95	90	90	95	95
Hydraulic Properties										
Water permeability normal to the plane [EN ISO 11058 - Δh = 50 mm]		l/m²s (mm/s)	70	70	70	70	70	70	70	70
Water flow capacity in the plane [EN ISO 12958]	20 kPa	10^{-7} m²/s	20	20	20	20	20	20	20	20
Characteristic opening size O_{90} [EN ISO 12956]		μm	95	95	95	95	95	95	95	95
Forms of Supply										
Roll width		m	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Roll length		m	100	100	100	100	100	100	100	100
Roll weight		kg	180	190	200	240	250	260	285	340

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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