

Geolon® PP - Geotextiles

Technical Data

TenCate Polyfelt Geolon® PP woven uniaxial geotextiles are engineered materials suitable for soil reinforcement applications. They are composed of high modulus polypropylene fibres, assembled to form a structured and stable woven geotextile.



TenCate Polyfelt Geolon® PP

Properties <small>[Standard]</small>	Unit	PP 120	PP 200	PP 300	PP 400	PP 500	
Mechanical Properties							
Tensile strength <small>[EN ISO 10319]</small>	MD	kN/m	132	220	330	440	550
	min	kN/m	120	200	300	400	500
	CD	kN/m	45	45	45	45	45
Elongation at nominal strength <small>[EN ISO 10319]</small>	MD	%	9	9	9	9	9
	CD	%	10	10	10	10	10
Tensile strength at 2%	MD	kN/m	30	50	75	100	125
	5%	MD	kN/m	84	140	210	280
<small>[EN ISO 10319]</small>							
Static puncture resistance (CBR-value) <small>[EN ISO 12236]</small>		kN	8	9	10	12	13
Dynamic perforation (cone drop) <small>[EN ISO 13433]</small>		mm	8	7	7	7	6
Hydraulic Properties							
Water permeability normal to the plane <small>[EN ISO 11058 - dh = 50 mm]</small>		l/m ² s (mm/s)	15	13	10	10	10
Characteristic opening size O ₉₀ <small>[EN ISO 12956]</small>		micron	250	250	250	250	250
Forms of Supply							
Roll width		m	5.2	5.2	5.2	5.05	5.05
Roll length		m	200	200	200	200	100
Roll weight		kg	385	560	740	960	660

MD = machine direction / CD = cross direction

min: These values are given within the 95% confidence level.

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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