


NorGeoSpec 2012 Product Certificate

Quality Product Certification Separation and Filtration

This product has been found to be fit for use in accordance with NorGeoSpec 2012 System for the above given function.

Certificate no.:	NGS-50078
Date:	09.05.2017
Valid until:	08.05.2019
Manufacturer:	TenCate Geosynthetics
Product:	TS50N
Product Type:	GTX-N
Raw material:	PP
Function:	Separation and Filtration

Issued by



Christian Recker, SINTEF project manager

Approved by



Arnstein Watn, Head of the Technical committee



The products are regularly audited and tested to verify that the characteristics fulfil the NorGeoSpec 2012 Rev.: 01/14.12.2016 requirements. Approved by the NorGeoSpec Technical committee: 09.05.2017

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Characteristic	Standard	Unit	Declared value	Max. tolerance	Certification value	
Mass per unit area	EN ISO 9864	g/m ²	190	± 19	171 - 209	
Mechanical tests						
Max. tensile strength	MD	EN ISO 10319	kN/m	13.70	- 1.37	15.03
	CMD	EN ISO 10319	kN/m	19.70	- 1.97	15.03
Tensile strain at max. tensile load	MD	EN ISO 10319	%	90.0	- 18.0	46.0
	CMD	EN ISO 10319	%	25.0	- 5.0	46.0
Static puncture test	EN ISO 12236	KN	2.250	- 0.225	2.025	
Dynamic perforation resistance	EN ISO 13433	mm	22	4.4	26	
Energy index	NorGeoSpec 2012	kN/m	3.2	0.0	3.2	
Hydraulic tests						
Velocity index	EN ISO 11058	m/s	0.090	- 0.027	0.063	
Characteristic opening size	EN ISO 12956	µm	100	± 30.0	70 - 130	
Durability (Declared value)						
Service life		years	<input type="checkbox"/> 25	<input type="checkbox"/> 50	<input type="checkbox"/> 100	

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Application profile: **3**