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-50136
Date:	05.09.2018
Valid until:	04.09.2020
Manufacturer:	Tessilbrenta
Product:	HIPERTEX TB1
Product Type:	GTX-N
Raw material:	PP
Function:	Separation and Filtration

Issued by

Austr- lect

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: 05.09.2018

Quality Product Certification Separation and Filtration

Characteristic		Standard	Unit	Declared value	Max. tolerance	Certification value
Mass per unit area		EN ISO 9864	g/m²	90	±9	81 - 99
Mechanical tests					1	
Tensile strength	MD	EN ISO 10319	kN/m	5.80	- 0.50	6.00
	CMD	EN ISO 10319	kN/m	7.40	- 0.70	- 6.00
Tensile strain at tensile strength	MD	EN ISO 10319	%	45.0	- 9.0	27.5
	CMD	EN ISO 10319	%	48.0	- 9.0	- 37.5
Static puncture test		EN ISO 12236	KN	0.950	- 0.095	0.855
Dynamic perforation resistance		EN ISO 13433	mm	35	7	42
Energy index		NorGeoSpec 2012	kN/m	1.2	0.0	1.2
Hydraulic tests						
Permeability normal to the plane without load		EN ISO 11058	m/s	0.100	- 0.030	0.070
Characteristic opening size		EN ISO 12956	μm	110	± 33	77 - 143
Durability (Declared value)						
Service life			years	25	50	100

Quality Product Certification: Separation and Filtration

Application profile:

1