

Quality Product CertificationSeparation and Filtration

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

Certificate no.:	NGS-50232
Date:	05.09.2020
Valid until:	04.09.2022
Manufacturer:	Tessilbrenta
Product:	HIPERTEX TB5
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

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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: 08.02.2021



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Quality Product Certification				DoP ¹⁾	NGS			
Characteristic		Test method	Unit	DoP declared mean value	NGS declared mean value ²⁾	NGS max. tolerance ³⁾	NGS declared tolerance ⁴⁾	NGS control limits ⁵⁾
Mass per unit area		EN ISO 9864	g/m²	(-)	340	± 34.0	± 34.0	306.0-374.0
Tensile strength	MD	EN ISO 10319	kN/m	28.30	28.30	-2.83	-2.80	≥ 26.05
	CMD	EN ISO 10319	kN/m	29.40	29.40	-2.94	-2.80	
Tensile strain at tensile strength	MD	EN ISO 10319	%	58.0	58.0	-11.6	-11.0	≥ 47.0
	CMD	EN ISO 10319	%	58.0	58.0	-11.6	-11.0	
Static puncture test (CBR test)		EN ISO 12236	kN	4.200	4.200	-0.420	-0.420	≥ 3.800
Dynamic perforation test		EN ISO 13433	mm	10	10	+2.5	+2.0	≤ 12.0
Energy index		NorGeoSpec 2012	kN/m	(-)	6.5		0.0	≥ 6.5
Water permeability normal to the plane, without load		EN ISO 11058	m/s	0.030	0.030	-0.0090	-0.0090	≥ 0.0210
Characteristic opening size		EN ISO 12956	μm	80	80	± 24.0	± 24.0	56.0-104.0
Service life			years	100				

¹⁾ Manufacturer's Declaration of performance acc. hEN standards dated 05.01.2015

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Application profile: 5

²⁾ Manufacturer's declared values

³⁾ Max. possible NorGeoSpec tolerance according to table 1 Part 1 and Part 2 of the guideline

⁴⁾ Manufacturer's declared tolerance; the tolerance for the NorGeoSpec certificate shall be equal or less than the "NGS max. tolerance" (see table 1 Part 1 and Part 2 of the quideline)

⁵⁾ NorGeoSpec control limit values regarding fitness for use; these "NGS control limits" are calculated based on the "NGS declared mean values" and the "NGS declared tolerances"; the product has to satisfy these "NGS control limits" during the NorGeoSpec certification process and random product testing