

## **Quality Product Certification**Separation 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-50404
Date:	05.09.2024
Valid until:	04.09.2026
Manufacturer:	Tessilbrenta S.p.A.
Product:	HIPERTEX TB2
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

2012 A 2012 A 2010 A 20

NorGeoSpec

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: 19.08.2024



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Quality Product Certification				DoP <sup>1)</sup>	NGS			
Characteristic		Test method	Unit	DoP declared mean value	NGS declared mean value <sup>2)</sup>	NGS max. tolerance <sup>3)</sup>	NGS declared tolerance <sup>4)</sup>	NGS control limits <sup>5)</sup>
Mass per unit area		EN ISO 9864	g/m²	(-)	135.0	± 13.5	± 13.5	121.5 - 148.5
Tensile strength	MD	EN ISO 10319	kN/m	9.60	9.60	-0.96	-0.90	≥ 10.00
	CMD	EN ISO 10319	kN/m	12.50	12.50	-1.25	-1.20	2 10.00
Tensile strain at tensile strength	MD	EN ISO 10319	%	49.0	49.0	-9.8	-9.8	≥ 39.2
	CMD	EN ISO 10319	%	49.0	49.0	-9.8	-9.8	
Static puncture test (CBR test)		EN ISO 12236	kN	1.700	1.700	-0.170	-0.170	≥ 1.530
Dynamic perforation test		EN ISO 13433	mm	30.0	30.0	+7.5	+7.5	≤ 37.5
Energy index		NorGeoSpec 2012	kN/m	(-)	2.1		0.0	≥ 2.1
Water permeability normal to the plane, without load		EN ISO 11058	m/s	0.0700	0.0700	-0.0210	-0.0210	≥ 0.0490
Characteristic opening size		EN ISO 12956	μm	85.0	85.0	± 25.5	± 25.5	59.5 - 110.5
Service life			years	50	50			

<sup>1)</sup> Manufacturer's Declaration of performance acc. hEN standards

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Application profile: 2

Manufacturer's declared values

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

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 guideline)

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