

NorGeoSpec 2012 Product Certificate



Certificate no.: 1601-QC-1441 Manufacturer: THRACE NonWovens & Geosynthetics S.A. Raw material: PP
 Date: 30.01.2015 Product: 270NW Function: Separation and Filtration
 Valid until: 29.01.2017 Product Type: GTX-N

Quality Product Certification Separation and Filtration

Characteristic	Standard	Unit	Declared value	Max. tolerance	Certification value	
Mass per unit area	EN ISO 9864	g/m ²	270	± 27	243-297	
Mechanical tests						
Tensile strength	MD	EN ISO 10319	kN/m	22,00	- 2,00	20,00
	CMD	EN ISO 10319	kN/m	22,00	- 2,00	
Elongation at max. load	MD	EN ISO 10319	%	45,0	- 9,0	36,0
	CMD	EN ISO 10319	%	45,0	- 9,0	
Static puncture test	EN ISO 12236	kN	2,800	- 0,280	2,520	
Dynamic perforation resistance	EN ISO 13433	mm	18	+ 3	21	
Energy index	NorGeoSpec 2012	kN/m	4,5	-	4,5	
Hydraulic tests						
Velocity index	EN ISO 11058	m/s	0,035	- 0,010	0,025	
Characteristic opening size	EN ISO 12956	µm	70	± 21	49-91	
Durability (Declared value)						
Service life		years	25			

Quality Product Specification

Separation and Filtration Application profile: **4**

Issued by

Christian Recker, NorGeoSpec 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 req
 Approved by the NorGeoSpec Technical committee: 30.01.2015