

# Multifunctional geotextiles for separation and filtration (according to German robustness classes)

## Secutex® Green G1 GRK



compostable  
7H2040 – Ed. A

### Product description:

Single-layered needle punched staple fibre nonwoven geotextile, 100% biodegradable\*

Property	Test method**	Unit	30G1 GRK 2	40G1 GRK 3	60G1 GRK 4	90G1 GRK 5	120G1 GRK 5
Raw material	-	-	NAUE GreenLine (organic fibre G1***)				
Mass per unit area	ASTM D5261	g/m <sup>2</sup>	300	400	600	900	1,200
Thickness	ASTM D5199	mm	3.0	3.3	4.0	5.5	7.0
Tensile strength, md / cmd****	ASTM D4595	kN/m	6 / 8	8 / 11	12 / 17	17 / 26	20 / 34
Elongation at max. strength, md / cmd****	ASTM D4595	%	40 / 30	40 / 30	40 / 30	45 / 30	45 / 30
Static puncture	EN ISO 12236	N	≥ 1,000	≥ 1,500	≥ 2,500	≥ 3,500	≥ 5,000
Displacement at static puncture	EN ISO 12236	mm	30	30	30	30	30
Characteristic opening size	EN ISO 12956	µm	70	60	50	47	45
Water permeability							
- V <sub>H50</sub> -Index	EN ISO 11058	m/s	5.5 x 10 <sup>-2</sup>	3.0 x 10 <sup>-2</sup>	2.0 x 10 <sup>-2</sup>	1.6 x 10 <sup>-2</sup>	1.0 x 10 <sup>-2</sup>
- Flow rate <sub>H50</sub>		l/(m <sup>2</sup> s)	55	30	20	16	10
Detector tested	-	-	yes	yes	yes	yes	yes
Roll length / diameter (approx.)	-	m	75 / 0.6	75 / 0.6	75 / 0.6	50 / 0.6	50 / 0.6
Roll weight at width of 2 / 4 / 6m (approx.)	-	kg	50 / 100 / 150	65 / 130 / 195	95 / 190 / 285	95 / 190 / 285	125 / 250 / 375

\*The duration until 100% degradation depends on the environmental conditions in the installed state or on the composting after dismantling, \*\*based on, in dry condition, \*\*\*G1=internal Code for the raw material, \*\*\*\*md = machine direction, cmd = cross machine direction

The listed technical values are guiding values, achieved in our laboratories and/or independent testing institutes. Our products are subject to changes without prior notice.