

# Geogrid/nonwoven composite

## Combigrid® 40/40 Q1 151 GRK 3



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### Product description:

Composite of a laid geogrid made of stretched, monolithic polypropylene (PP) flat bars with welded junctions and a mechanical bonded filter geotextile welded within the geogrid structure, used for the reinforcement in many fields of civil engineering including road construction, landfill and hydraulic engineering

Property	Test method*	Unit	40/40 Q1 151 GRK 3
<b>Geogrid</b>			<b>40/40 Q1</b>
Raw material	-	-	polypropylene (PP), white
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	240
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	≥ 40 / ≥ 40
Elongation at nominal strength, md / cmd**	EN ISO 10319	%	≤ 8 / ≤ 8
Tensile strength at 2% elongation, md / cmd**	EN ISO 10319	kN/m	16 / 16
Tensile strength at 5% elongation, md / cmd**	EN ISO 10319	kN/m	32 / 32
Aperture size, md x cmd**	-	mm x mm	approx. 31 x 31
Production specific elongation	-	%	0
<b>Geotextile</b>			<b>151 GRK 3</b>
Raw material	-	-	polypropylene (PP), white
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	150
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	6.0 / 10.0
Elongation at max. tensile strength, md / cmd**	EN ISO 10319	%	50 / 30
Puncture force	EN ISO 12236	N	1,670
Displacement at static puncture strength	EN ISO 12236	mm	30
Characteristic opening size	EN ISO 12956	mm	0.13
Water permeability			
- V <sub>H50</sub> -Index	EN ISO 11058	m/s	1.1 x 10 <sup>-1</sup>
- Flow rate <sub>H50</sub>		l/sm <sup>2</sup>	110
Detector tested	-	-	yes
Roll dimensions, width x length	-	m x m	4.75 x 100

\*based on, \*\*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.