

Geogrid/nonwoven composite

Combigrid® 40/40 Q1 151 GRK 3



NAUE GmbH & Co. KG
 Gewerbestr. 2
 32339 Espelkamp- Fiestel
 Germany
 Phone: +49 57 43 / 41- 0
 Fax: +49 57 43 / 41- 2 40
www.naue.com info@naue.com

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
Geogrid			40/40 Q1
Raw material	-	-	polypropylene (PP), white
Mass per unit area	EN ISO 9864 (EN 965)	g/m ²	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
Geotextile			151 GRK 3
Raw material	-	-	polypropylene (PP), white
Mass per unit area	EN ISO 9864 (EN 965)	g/m ²	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	%	60 / 40
Puncture force	EN ISO 12236	N	1,670
Elongation at static puncture strength	EN ISO 12236	%	35
Characteristic opening size	EN ISO 12956	mm	0.13
Water permeability			
- VI _{H50} -Index	EN ISO 11058	m/s	1.1 x 10 ⁻¹
- Flow rate _{H50}		l/sm ²	110
Detector tested	-	-	yes
Roll dimensions, width x length	-	m x m	4.75 x 50

*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.