

Combigrid Q1 (PP) Range

Geogrid/Geotextile composite

REV: 31-Mar-2014

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

TECHNICAL DATA SHEET

Combigrid Geogrids	Test Standard*	unit	20/20 Q1	30/30 Q1	40/40 Q1	60/60 Q1
GEOGRID PROPERTIES						
Raw material	-	-	polypropylene (PP), white			
Mass per unit area	EN ISO 9864	g/m ²	155	200	240	360
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	≥ 20 / ≥ 20	≥ 30 / ≥ 30	≥ 40 / ≥ 40	≥ 60 / ≥ 60
Elongation at nominal strength, md / cmd**	EN ISO 10319	%	≤ 8 / ≤ 8	≤ 8 / ≤ 8	≤ 8 / ≤ 8	≤ 8 / ≤ 8
Tensile strength at 1% elongation, md / cmd**	EN ISO 10319	kN/m	4 / 4	6 / 6	8 / 8	12 / 12
Tensile strength at 2% elongation, md / cmd**	EN ISO 10319	kN/m	8 / 8	12 / 12	16 / 16	22 / 22
Tensile strength at 5% elongation, md / cmd**	EN ISO 10319	kN/m	16 / 16	24 / 24	32 / 32	48 / 48
Aperture size, md x cmd**	-	mm x mm	approx. 33 x 33	approx. 32 x 32	approx. 31 x 31	approx. 31 x 31
Production specific elongation	-	%	0	0	0	0
GEOTEXTILES PROPERTIES						
Raw material	-	-	polypropylene (PP), white			
Mass per unit area	EN ISO 9864	g/m ²	≥ 150	≥ 150	≥ 150	≥ 150
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	7.5 / 11.0	7.5 / 11.0	7.5 / 11.0	7.5 / 11.0
Elongation at max. tensile strength, md / cmd**	EN ISO 10320	%	40 / 30	40 / 30	40 / 30	40 / 30
Puncture force	EN ISO 12236	N	1,670	1,670	1,670	1,670
Displacement at static puncture strength	EN ISO 12236	mm	30	30	30	30
Detector tested	-	-	yes	yes	yes	yes
Roll dimensions; W x L	-	m x m	4.75 x 100	4.75 x 100	4.75 x 100	4.75 x 100

*based on, **md = machine direction, cmd = cross machine direction

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

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