

Secugrid Q1 (PP) Range

Geogrid for superior soil reinforcement

REV: 24-Mar-2021

Product Description: Laid geogrid made of stretched, monolithic polypropylene (PP) flat bars with welded junctions used for the reinforcement in many fields of civil engineering including landfill engineering, road construction and hydraulic engineering.

TECHNICAL DATA SHEET

Secugrid Geogrids	Test Standard*	unit	20/20 Q1	30/30 Q1	40/40 Q1	60/60 Q1	80/80 Q1
PROPERTIES							
Raw material	-	-	polypropylene (PP), white				
Mass per unit area	EN ISO 9864	g/m ²	155	200	240	360	440
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	≥ 20 / ≥ 20	≥ 30 / ≥ 30	≥ 40 / ≥ 40	≥ 60 / ≥ 60	≥ 80 / ≥ 80
Elongation at nominal strength, md / cmd**	EN ISO 10319	%	≤ 7 / ≤ 7				
Tensile strength at 1% elongation, md / cmd**	EN ISO 10319	kN/m	4 / 4	6 / 6	8 / 8	12 / 12	16 / 16
Tensile strength at 2% elongation, md / cmd**	EN ISO 10319	kN/m	8 / 8	12 / 12	16 / 16	22 / 22	25 / 25
Tensile strength at 5% elongation, md / cmd**	EN ISO 10319	kN/m	16 / 16	24 / 24	32 / 32	48 / 48	50 / 50
Radial stiffness @ 0.5% strain***	DIN EN ISO 10319	kN/m	≥ 334	≥ 418	≥ 572	≥ 458	≥ 1,008
Aperture size, md x cmd**	-	mm x mm	approx. 33 x 33	approx. 32 x 32	approx. 31 x 31	approx. 31 x 31	approx. 31 x 31
UV-resistance (remaining tensile strength)	EN 12224	%	95.0				
Weather resistance	FGSV	class	high	high	high	high	high
Production specific elongation	-	%	0	0	0	0	0
Roll dimensions, width x length	-	m x m	4.75 x 100				

*based on, **md = machine direction, cmd = cross machine direction, ***this test is performed by external laboratories and is not part of the manufacturer's regular quality control.

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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