

Geogrid

Secugrid® Q (PP)

Product description:

Laid geogrid made of stretched, monolithic polypropylene (PP) flat bars with welded junctions used for stabilisation and reinforcement of soils in many fields of infrastructure, environmental protection and hydraulic engineering applications

Property	Test method*	Unit	20/20 Q1	30/30 Q1	40/40 Q1	60/60 Q1	80/80 Q1	
Raw material	-	-	polypropylene (PP), white					
Mass per unit area	EN ISO 9864	g/m ²	155	200	240	360	440	
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***	EN ISO 10319	kN/m	≥ 334	≥ 418	≥ 440	≥ 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 30	
UV-resistance (remaining tensile strength)	EN 12224	%	95.0					
Weather resistance	FGSV	class	high					
Production specific elongation	-	%	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 our regular quality control

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.