

Geogrid

Secugrid® R (PES/PET)



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Product description:

Laid geogrid made of stretched, monolithic polyester (PET) flat or profile bars with welded junctions used for the reinforcement in many fields of civil engineering including landfill engineering, road construction and hydraulic engineering

Property	Test method*	Unit	40/20 R6	80/20 R6	120/40 R6	150/40 R6	200/40 R6	400/40 R6
Raw material	-	-	polyester/PET, transparent					
Mass per unit area	EN ISO 9864	g/m ²	285	380	580	680	810	1.420
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	≥ 40 / ≥ 20	≥ 80 / ≥ 20	≥ 120 / ≥ 40	≥ 150 / ≥ 40	≥ 200 / ≥ 40	≥ 400 / ≥ 40
Elongation at nominal strength, md / cmd**	EN ISO 10319	%	≤ 7 / ≤ 7					
Tensile strength at 1% elongation, md**	EN ISO 10319	kN/m	8	16	24	30	40	80
Tensile strength at 2% elongation, md**	EN ISO 10319	kN/m	14	28	42	53	70	140
Tensile strength at 5% elongation, md**	EN ISO 10319	kN/m	28	56	84	110	140	280
Aperture size, md x cmd**	-	mm x mm	approx. 73 x 31	approx. 73 x 30	approx. 71 x 28	approx. 71 x 27	approx. 71 x 25	approx. 70 x 14
UV-resistance (remaining tensile strength)	EN 12224	%	96.3					
Weather resistance	FGSV	class	high					
Production specific elongation	-	%	0					
Roll dimensions, width x length	-	m x m	4.75 x 100					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.