

Technical Data Sheet

EnkaMat™ 7018/1



EnkaMat™ is a three-dimensional matting made from continuous nylon monofilaments fused at their intersections. This process creates a flexible, durable structure where 95% is open space, ready for interaction with soil, mulch, and roots. This unique, open design creates the most effective root-reinforcement mat available. Unlike some materials, EnkaMat™ is manufactured from nylon to eliminate any buoyancy issues in submerged conditions. It instantly conforms to any soil surface, delivering immediate erosion control that is highly cost-efficient due to its low-maintenance requirements.

Properties geocomposite	Test Method	Unit	EnkaMat™ 7018/1
Polymer			PA
Weight	EN ISO 9864	g/m²	290
Thickness nominal		mm	18
Tensile strength - MD	EN ISO 10319	kN/m	2
Tensile strength - CMD	EN ISO 10319	kN/m	1.2
Elongation at maximum load - MD	EN ISO 10319	%	80
Elongation at maximum load - CMD	EN ISO 10319	%	80
Temperature resistance		°C	-40/80
Inflammability	DIN 4102		B2
Structure Type			open
3 dimensional structure providing free volume		%	>95
Soil retention factor		m/m²	1290
Durability			
Ageing	Good resistance to weathering and radiation		
Chemical Resistance	Resistant to all chemicals in concentrations which are normally contained in the earth and surface water.		
Toxicity	None; approved for use in potable water reservoirs; EnkaMat™ is inert and not harmful to the environment.		
Rodent damage	No nutritive value; the tangled structure of the mat is unpleasant to burrowing animals and rodents.		
Filling on site	Filling the erosion control product with soil-layer and vegetation seeds according installation manual.		
Dimensions		Unit	EnkaMat™ 7018/1
Width x Length		m	1 x 120
Length / diameter of roll		m	1.03 x 1.25
Gross weight		kg	36



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