

Enkagrid[®] PRO 90

Enkagrid[®] PRO 90 is a rigid uniaxial geogrid composed of highly oriented extruded polyester strips. The polyester strips are bonded using laser technology that precisely controls the production process creating consistently rigid junctions. Enkagrid[®] PRO 90 is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
			Machine Direction
Tensile Strength (at ultimate)	ASTM D 4595	kN/m (lbs/ft)	90 (6168)
Tensile Strength (at 2% strain)	ASTM D 4595	kN/m (lbs/ft)	21 (1438)
Tensile Strength (at 5% strain)	ASTM D 4595	kN/m (lbs/ft)	45 (3084)
Creep Reduced Strength	ASTM D 5262	kN/m (lbs/ft)	62.1 (4256)
Long Term Allowable Design Load*	GRI GG-4	kN/m (lbs/ft)	49.5 (3394)

* NOTE: Long Term Allowable Design values are for sand, silt and clay.

Physical Properties	Test Method	Unit	Typical Value
Grid Aperture Size (MD x CD)	--	mm (in)	94 (3.7) x 40 (1.57)
Mass/Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	280 (8.3)
Roll Dimensions (length x width)	--	m (ft)	5 (16.4) X 100 (328)
Roll Area	--	m ² (yd ²)	500 (598)
Estimated Roll Weight	---	kg (lbs)	166 (366)

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