

Enkagrid[®] MAX 30

Enkagrid[®] MAX 30 is a rigid biaxial geogrid composed of highly oriented extruded polypropylene strips. The polypropylene strips are bonded using laser technology that precisely controls the production process creating consistently rigid junctions. Enkagrid[®] MAX 30 is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D 4595	kN/m (lbs/ft)	30 (2055)	32 (2192)
Elongation (at ultimate)	ASTM D 4595	%	10	12
Tensile Strength (at 2% strain)	ASTM D 4595	kN/m (lbs/ft)	10 (685)	10 (685)
Tensile Strength (at 5% strain)	ASTM D 4595	kN/m (lbs/ft)	20 (1370)	20 (1370)
Tensile Modulus (at 2% strain)	ASTM D 4595	kN/m (lbs/ft)	500 (34250)	500 (34250)
Tensile Modulus (at 5% strain)	ASTM D 4595	kN/m (lbs/ft)	400 (27400)	400 (27400)
Junction Strength per Rib, J_{rib}	GRI-GG2	N (lbs)	311 (70)	311 (70)
Ultimate Junction Strength, J_{grid}	GRI-GG2	kN/m (lbs/ft)	7.1 (490)	7.1 (490)
Flexural Rigidity	ASTM D 1388	mg-cm	950000	
Percent Open Area	COE-22125-86	%	70	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

Physical Properties	Test Method	Unit	Typical Value
Grid Aperture Size (MD x CD)	--	mm (in)	44 (1.73) x 43 (1.69)
Mass/Unit Area	ASTM D 5261	g/m^2 (oz/yd ²)	242 (7.1)
Roll Dimensions (width x length)	--	m (ft)	5 (16.4) x 100 (328)
Roll Area	--	m^2 (yd ²)	500 (598)
Estimated Roll Weight	---	kg (lbs)	147 (324)

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