

Enkagrid[®] MAX 20

Enkagrid[®] MAX 20 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 20 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 6637	kN/m (lbs/ft)	20 (1370)	32 (2192)
Elongation (at ultimate)	ASTM D 6637	%	10	12
Tensile Strength (at 2% strain)	ASTM D 6637	kN/m (lbs/ft)	6 (411)	10 (685)
Tensile Strength (at 5% strain)	ASTM D 6637	kN/m (lbs/ft)	12 (822)	20 (1370)
Tensile Modulus (at 2% strain)	ASTM D 6637	kN/m (lbs/ft)	300 (20550)	500 (68500)
Tensile Modulus (at 5% strain)	ASTM D 6637	kN/m (lbs/ft)	240 (16440)	400 (27400)
Initial Junction Stiffness (Junction Modulus @ 1% Strain)	GRI-GG2	kN (lbs)	300 (20556)	
Ultimate Junction Strength, J_{grid}	GRI-GG2	kN/m (lbs/ft)	12.2 (840)	9.2 (630)
Junction Strength per Rib, J_{rib}	GRI-GG2	N (lbs)	534 (120)	400 (90)
Flexural Rigidity	ASTM Modified	mg-cm	450000	
Percent Open Area	COE-22125-86	%	75	
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 44 (1.73)
Mass/Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	186 (5.5)
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)	119 (262)

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