



■ Enkagrid® MAX 20

Enkagrid® MAX 20 is a rigid biaxial geogrid comprised of highly oriented extruded polypropylene. The engineered structure of Enkagrid® MAX 20 is produced using a patented, computer-controlled laser welding production process to create the grid matrix. The quality and integrity of the junctions are precisely controlled throughout the geogrid, resulting in superior durability and long-term performance. Enkagrid® MAX 20 is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

PROPERTY	METHOD	UNITS	Metric	English
		Metric – English	MD and XMD	MD and XMD
■ STRENGTH / PERFORMANCE / DESIGN PROPERTIES				
<input type="checkbox"/> Tensile Strengths	ASTM D 6637	kN/m – lbs/ft	5.2	356
Strength @ 1% Strain			8.2	563
Strength @ 2% Strain			15.1	1,031
Strength @ 5% Strain			24.2	1,658
Strength @ Ultimate		%	8	
Strain @ Ultimate				
<input type="checkbox"/> Tensile Modulus	ASTM D 6637	kN/m – lbs/ft	520	35,600
Modulus @ 1% Strain			411	28,150
Modulus @ 2% Strain			301	20,620
Modulus @ 5% Strain				
<input type="checkbox"/> Aperture Stability Modulus / Torsional Rigidity	Kinney (USACOE)	m-N/deg	0.70	(Not Applicable)
Geogrid Design Value – J ⁽¹⁾				
■ QUALITY CONTROL / DURABILITY / INDEX PROPERTIES				
<input type="checkbox"/> Structural	GRI-GG2	kN – lbs kN/m – lbs/ft	0.70	157
Junction Strength (Ultimate)			14.0	958
Flexural Rigidity / Stiffness	ASTM D 5732	mg - cm	289,600	NP
<input type="checkbox"/> Durability	ASTM D 5818 & ASTM D 6637	%	SS/GC/GCS	98 / 95 / 99
Resistance to Installation Damage				
Resistance to Long Term Degradation	EPA 9090	%		100
Resistance to UV Degradation	ASTM D 4355			95
<input type="checkbox"/> Physical	Measured (Typical)	mm – in	41 x 41	1.61 x 1.61
Aperture Dimensions		width x length	5.0 m x 100 m	16.4 ft x 328 ft
Roll Size / Packaging / Weight		area	500 m ²	598 yd ²
		weight	84 kg	185 lbs
		diameter	37 cm	14.5 in

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.
- The properties reported above are effective 07/09/09 and are subject to change without notice.

⁽¹⁾ Giroud, J.P. and Han, J., “Design Method for Geogrid-Reinforced Unpaved Roads - I. Development of Design Method”, Journal of Geotechnical and Geoenvironmental Engineering, Vol. 130, No. 8, August 1, 2004, pp. 775-786.

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