



EGA 20

Envirogrid EGA GeoCell

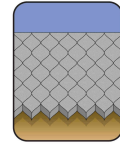
EROSION CONTROL



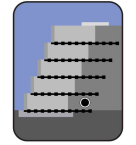
STABILIZATION



CELLULAR CONFINEMENT



RETAINING WALL



EnviroGrid® EGA 20 is a three-dimensional cellular confinement system that provides confinement and reinforcement to granular material for load support erosion control, slope protection and retaining wall applications.

EnviroGrid® EGA 20 sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells. Each strip is the approved width and 142 inches (3.6m) in length.



PROPERTY	TEST METHOD	ENGLISH	METRIC
Cell Depth <input type="text" value="4 Cell Depths Available"/>	Measured	3 , 4 , 6 , 8 inches	75 , 100 , 150 , 200 mm
Expanded Cell Size (length x width) <input type="text" value="Nominal"/>	Measured	10.2 x 8.8 inches	259 x 224 mm
Expanded Cell Area <input type="text" value="Nominal"/>	Measured	44.8 in	289 cm
Expanded Section Area <input type="text" value="Nominal"/>	Measured	180 f ²	16.7 m ²
Expanded Section Size (width x length) <input type="text" value="Minimum"/>	Measured	9.2 x 19.4 ft	2.8 x 5.9 m
Expanded Section Size (width x length) <input type="text" value="Maximum"/>	Measured	7.6 x 23.3 ft	2.3 x 7.1 m
Expanded Section Size (width x length) <input type="text" value="Nominal"/>	Measured	8.4 x 21.4 ft	2.56 x 6.52 m
Seam Peel Strength <input type="text" value="Minimum (>)"/>		80 lbf/in	142 N/cm
Seam Peel Strength ⁽¹⁾ <input type="text" value="Long Term"/>	See Notes	160 lb	710 N
Internal Junction Efficiency ⁽²⁾ <input type="text" value="(>)"/>	See Notes	100 %	100 %
Mechanical Junction Efficiency ⁽²⁾ <input type="text" value="(>)"/>	See Notes	100 %	100 %
Peak Friction Angle Ratio ⁽³⁾		0.95	0.95
Environmental Stress Crack Resistance	<u>ASTM D-1693</u>	5,000 hours	
Oxidation Resistance ⁽⁵⁾ <input type="text" value="(>)"/>	EN ISO 13438	100	years
Weathering Resistance ⁽⁶⁾	EN ISO 12224	100	%
Polymer Density	<u>ASTM D-1505</u>	0.935 x 0.965 lb/ft ³	0.935 x 0.965 g/cm ³
Flexural Storage Modulus <input type="text" value="(>)"/>	ISO 6721	750 MPA	750 MPA

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PROPERTY	TEST METHOD	ENGLISH	METRIC
Carbon Black Content ⁽⁴⁾	<u>ASTM D-1603</u>	1.5 - 2 %	1.5 - 2 %
Texture Density <input type="text" value="Shape: Romboidal"/>		22 - 31 indentations /cm ²	22 - 31 indentations /cm ²
Sheet Thickness (before/after texturing)	<u>ASTM D-5199</u>	50 - 60 mils (-5% +10%)	1.27 - 1.52 mm (-5% +10%)

⁽¹⁾ A 4" (100mm) wide seam sample shall support a 160lb (72.5kg)load for a period of 7 days minimum in a temperature-controlled environment undergoing a temperature change on a 10 hour cycle from ambient room to 130°F (54°C). Ambient room temperature per ASTM E 41.

⁽²⁾ Junction efficiency determined as a percentage of junction performance (EN ISO 13426-1) to perforated strip performance (EN ISO 10319).

⁽³⁾ Value for clean granular infill material.

⁽⁴⁾ Standard black HDPE strips. For tan/green EnviroGrid®, hindered amine light stabilizer (HALS) content will be 2.0% by weight of carrier.

⁽⁵⁾ Predicted to be durable for a minimum of 100 years in natural soil with a pH between 4 and 9 and at soil temperature <25°C. Testing was conducted at 100°C.

⁽⁶⁾100% of original tensile strength retained following exposure to intense UV radiation and accelerated weathering in accordance with EN 12224.