



Envirogrid® is a three dimensional cellular confinement system that provides confinement and reinforcement to granular material. Therefore it can be used for load support, erosion control, slope protection and for retaining wall construction. The Envirogrid® 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.

Geo Products, LLC

12626 North Houston Rosslyn Rd.

Houston, TX 77086

www.geoproducts.org

info@geoproducts.org

281.820.5493

MATERIAL PROPERTIES	TEST METHOD	UNIT	TEST VALUE
Polymer Density	ASTM D 1505	lb/ft ³ (g/cm ³)	58.4 - 60.2 (0.935 - 0.965)
Environmental Stress Crack Resistance	ASTM D 5397	hours	>400
Environmental Stress Crack Resistance	ASTM D 1693	hours	6000
Carbon Black Content	ASTM D 1603	% by weight	1.5% minimum
Nominal Sheet Thickness ¹ before texturing	ASTM D 5199	mil (mm)	50 (1.27) -5%,+10%
Nominal Sheet Thickness ¹ after texturing	ASTM D 5199	mil (mm)	60 (1.52) -5%,+10%

* Polyethylene strip shall be textured with a multitude of rhomboidal (diamond shape) indentations. The rhomboidal indentations shall have a surface density of 140 to 200 per in² (22 to 31 per cm²).

¹ The Nominal Sheet Thickness is an average thickness of the sheet, taken from the mean of 10 readings.

Product	Nominal-Expanded Cell Size (width x length) in (mm)	Nominal-Expanded Cell Area in ² (cm ²)	Nominal-Expanded Section (width x length) ft (m)	Nominal-Expanded Section Area ft ² (m ²)	Minimum-Expanded Section (width x length) ft (m)	Maximum-Expanded Section (width x length) ft (m)	Cell Depth in (mm)	Seam Peel Strength lbf (N)	Percent Cell Wall Open Area (%)	Seam Hang Strength
EGA20	10.2 x 8.8 (259 x 224)	44.8 (289)	8.4 x 21.4 (2.56 x 6.52)	180 (16.7)	7.6 x 19.4 (2.3 x 5.9)	9.2 x 23.3 (9.2 x 23.3)	3 (75)	240 (1060)	16 ± 1%	A 4 in (102mm) weld joint supporting a load of 160 lbs (72.5 kg) for 30 days minimum or a 4 in (102mm) weld joint supporting a load of 160 lbs (72.5 kg) for 7 days minimum while undergoing temperature change from 74°F (23°C) to 130°F (54°C) on a 1 hour cycle.
							4 (100)	320 (1420)	11 ± 1%	
							6 (150)	480 (2130)	16 ± 1%	
							8 (200)	640 (2840)	11 ± 1%	
EGA30	12.6 x 11.3 (320 x 287)	71.3 (460)	8.4 x 27.4 (2.56 x 8.35)	230 (21.4)	7.6 x 24.8 (2.3 x 7.6)	9.2 x 30.0 (9.2 x 9.1)	3 (75)	240 (1060)	16 ± 1%	
							4 (100)	320 (1420)	11 ± 1%	
							6 (150)	480 (2130)	16 ± 1%	
							8 (200)	640 (2840)	11 ± 1%	
EGA40	20 x 18.7 (508 x 475)	187 (1206)	8.4 x 45 (2.56 x 13.72)	378 (35.14)	7.6 x 40.9 (2.3 x 12.5)	9.2 x 44 (9.2 x 49.7)	3 (75)	240 (1060)	16 ± 1%	
							4 (100)	320 (1420)	11 ± 1%	
							6 (150)	480 (2130)	16 ± 1%	
							8 (200)	640 (2840)	11 ± 1%	

This information is provided for reference purposes only and is not intended as a warranty or guarantee. Geo Products, LLC assumes no liability in connection with the use of this information. Check with Geo Products, LLC for current, standard minimum quality assurance procedures.