



Cellular Confinement Systems - Geoceldas

EGA20

Envirogrid EGA 20 standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells and 10 cells wide. Each strip is the appropriate width and 142 inches (3.6m) in length. Weld spacing is 14.0 in \pm .12 in (355 \pm 3mm). Cell density is 35 cells per meter squared. Cell walls are textured and if perforations are required 16% \pm 2% of the cell wall is removed.



8615 Golden Spike Lane
Houston, TX USA 77086
Phone: (281) 820-5493
Fax: (281) 820-5499
www.geoproducts.org

Material Properties	Test Method	Unit	Test Value
Polymer Density	ASTM D 1505	g/cm ³ (lb/ft ³)	0.935-0.965 (58.4-60.2)
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	mm (mil)	1.00 (40) -5%, +10%
Nominal Sheet Thickness ⁽¹⁾ after texturing	ASTM D 5199	mm (mil)	1.27 (50) -5%, +10%

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

Physical Properties	Unit	Test Value			
Nominal - Expanded Cell Size (width x length)	mm (in)	259 (10.2) x 224 (8.8)			
Nominal - Expanded Cell Area	cm ² (in ²)	289 (44.8)			
Nominal - Expanded Panel Size (width x length)	m (ft)	2.56 (8.4) x 6.52 (21.4)			
Nominal - Expanded Panel Area	m ² (ft ²)	16.7 (180)			
Cell Depth	mm (in)	75 (3)	100 (4)	150 (6)	200 (8)
Seam Peel Strength	N (lbf)	852 (192)	1136 (256)	1704 (384)	2272 (512)
Seam Hang Strength	A 102mm (4in) weld joint supporting a load of 72.5 kg (160 lbs) for 30 days minimum or a 102mm (4in) weld joint supporting a load of 72.5 kg (160 lbs) for 7 days minimum while undergoing temperature change from 23°C (74°F) to 54°C (130°F) on a 1 hour cycle.				

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



11/12



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.