

Cellular Confinement Systems - Geocell

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 3% of the cell wall is removed.



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Material Properties	Test Method	Unit	Test Value	
Polymer Density	ASTM D 1505	g/cm³ (lb/ft³)	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)	1.27 (50) -5%, +10%	
Nominal Sheet Thickness ⁽¹⁾ after texturing	ASTM D 5199	mm (mil)	1.52 (60) -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)	1065 (240)	1420 (320)	2130 (480)	2840 (640)		
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.



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connection with the use of this information. Check with Geo Products, LLC for current, standard minimum quality assurance procedures.