

	Property	Value			Test Method	
Base Material	Material Composition	Polymer – Polyethylene with density of 0.935 – 0.965 g/cm ³ (58.4 - 60.2 lb/ft ³)			ASTM D1505 or D792	
	Color	Black - from Carbon Black	Tan, Green, Other Colors with no heavy metal content		N/A	
	Stabilizer	Carbon black content 1.5% - 2% by weight	Hindered amine light stabilizer (HALS) 2.0% by weight of carrier		N/A	
	Minimum ESCR	5000 hr			ASTM D 1693	
Strip Properties	Sheet Thickness	Prior to Texture: 1.27 mm -5% +10% (50 mil -5% +10%) After Texture: 1.52 mm -5% +10% (60 mil -5% +10%)			ASTM D 5199	
	Surface Treatment	Performance: The polyethylene strips shall be textured and perforated such that the peak friction angle between the surface of the textured / perforated plastic and a #40 silica sand at 100% relative density shall be no less than 85% of the peak friction angle of the silica sand in isolation when tested by the direct shear method per ASTM D 5321. The quantity of perforations shall remove 21.2% ± 1.0 % of the cell wall area.	Material: The polyethylene strips shall be textured with a multitude of rhomboidal (diamond shape) indentations. The rhomboidal indentations shall have a surface density of 22 – 31 per cm ² (140 – 200 per in ²). In addition, the strips shall be perforated with horizontal rows of 10 mm (0.4 in) diameter holes. Perforations within each row shall be 19 mm (0.75 in) on-center. Horizontal rows shall be staggered and separated 12 mm (0.50 in) relative to the hole centers. The edge of strip to the nearest edge of perforation shall be 8 mm (0.3 in) minimum and the centerline of the weld to the nearest edge of perforation shall be 18 mm (0.7 in) minimum. A slot with a dimension of 10 mm x 35 mm (3/8 in x 1 3/8 in) is standard in the center of the non-perforated areas and at the center of each weld.			
Cell & Seam Properties	Cell Details	Depth	Nominal Dimensions ±10%		Density per m² (yd²)	Nominal Area ±1%
			Length	Width		
	GW20V	75 mm (3 in), 100 mm (4 in) 150 mm (6 in), 200 mm (8 in)	224 mm (8.8 in)	259 mm (10.2 in)	36.4 (28.9)	289 cm ² (44.8 in ²)
	Short-term Seam Peel Strength	Cell Depth		Minimum Certified Cell Seam Strength		
		75 mm (3 in), 100 mm (4 in) 150 mm (6 in), 200 mm (8 in)	1060 N (240 lbf), 1420 N (320 ibf) 2130 N (480 ibf), 2840 N (640 ibf)			
Long-term Seam Peel Strength	Long-term seam peel-strength test shall be performed on all resin or pre-manufactured sheet or strips. A 100 mm (4.0 in) wide seam sample shall support a 72.5 kg (160 lb) load for a period of 168 hours (7 days) minimum in a temperature-controlled environment undergoing a temperature change on a 1-hour cycle from ambient room to 54°C (130°F). Ambient room temperature is per ASTM E 41.					
Section Properties	Section Dimension	Section Width	Section Length Range (Cells Long: 18, 21, 25, 29, 34)			
		Variable	Minimum	Maximum		
	GW20V	2.3 m (7.7 ft) to 2.8 m (9.2 ft)	3.7 m (12.0 ft)		8.3 m (27.3 ft)	
Certifications & Warranties	Geoweb® Material	Geoweb® sections are manufactured under a quality management system that is ISO-9001:2015 certified. For additional certification and warranty information, refer to the Presto Geosystems Geoweb® Cellular Confinement Specification .				

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