

**GC30T** standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells and 17 cells wide. Each strip is the appropriate width and 300 inches (7.62m) in length. Weld spacing is 17.5 in ± 0.12 in. (445 ± 3mm). Cell density is 21.7 cells per meter squared. Cell walls are textured and if perforations are required 13% ± 3% of the cell wall is removed. Polyethylene strip shall be textured and with a multitude of rhomboidal (diamond shape) indentations. The rhomboidal indentations shall have a surface density of 22 to 31 per cm<sup>2</sup> (140 to 200 per in<sup>2</sup>).

**Color:** Standard strips are black. ( Tan, Green, other colors with no heavy metal content available upon request)  
**Stabilizer:** Hindered amine light stabilizer (HALS) 2.0% by weight of carrier

**MATERIAL PROPERTIES**

Description	Test Method	Units	Test Value
> Polymer Density	ASTM D1505	lb/ft <sup>3</sup> (g/cm <sup>3</sup> )	<b>58.4-60.2</b> (0.935-0.965)
> Environmental Stress Crack Resistance	ASTM D5397	hours	>400
	ASTM D1693	hours	6,000
> Carbon Black Content	ASTM D1603	% by weight	1.5% - 2.0%
> Nominal Sheet Thickness before texturing	ASTM D5199	mil (mm)	<b>50</b> (1.27) -5%, +10%
> Nominal Sheet Thickness after texturing	ASTM D5199	mil (mm)	<b>60</b> (1.52) -5%, +10
> Resistance to Oxidation <sup>2</sup>	EN ISO 13438	years	≥50
> Resistance to Weathering <sup>3</sup>	EN 12224	%	100

**PHYSICAL PROPERTIES**

Description	Unit	Test Value
> Nominal - Expanded Cell Size (width x length)	in (mm)	<b>12.6</b> (320) x 11.3 (287)
> Nominal - Expanded Cell Area	in <sup>2</sup> (cm <sup>2</sup> )	<b>71.3</b> (460)
> Nominal - Expanded Panel Size (width x length)	ft (m)	<b>17.85</b> (5.44) x 27.4 (8.35)
> Nominal - Expanded Panel Area	ft (m <sup>2</sup> )	<b>489</b> (45.4)
> Internal Junction Efficiency <sup>1</sup>	%	≥100
> Mechanical Junction Efficiency	%	≥100
> Peak Friction Angle Ration ( δ/Ø ) granular material	unitless	0.95

> Cell Depth	in (mm)	<b>2</b> (50)	<b>3</b> (75)	<b>4</b> (100)	<b>6</b> (150)	<b>8</b> (200)
> Minimum Seam Peel Strength	lbf (N)	<b>160</b> (710)	<b>240</b> (1065)	<b>320</b> (1420)	<b>480</b> (2130)	<b>640</b> (2840)
> Minimum Hang Strength	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.					

- Notes:
- 1) Value is a percentage of junction performance (EN ISO 13426-1) to perforated strip performance (EN ISO 10319).
  - 2) Predicted to be durable for a minimum of 50 years in natural soil with a pH between 4 and 9 and at a soil temperature < 25°C.
  - 3) 100% of original tensile strength retained following exposure to intense UV radiation and accelerated weathering in accordance with EN 12224.



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