

Standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells. 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 cm² (140 to 200 per in²).

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 D 1505	lb/ft ³ (g/cm ³)	58.4-60.2 (0.935-0.965)
> Environmental Stress Crack Resistance	ASTM D 5397	hours	5,000
> 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%
> Resistance to Oxidation ²	EN ISO 13438	years	≥50
> Resistance to Weathering ³	EN 12224	%	100

PHYSICAL PROPERTIES

Description	Distance b/n Welds	Cell Width (+/- 10%)	Cell Length (+/- 10%)	Cell per yd ² (m ²)	Cell Area (+/-1%)	Panel Width	Panel Length	Expanded Panel Area
> GC20T	14" (350 mm)	10.2" (259 mm)	8.4" (224 mm)	28.9 (34.6)	44.8 in² (289 cm ²)	17.85' (5.44 m)	21.4' (6.52m)	382ft² (35.5m ²)
> GC30T	17.5" (445 mm)	12.6" (287mm)	11.3" (320 mm)	18.2 (21.7)	71.3in² (460 cm ²)	17.85' (5.44 m)	27.4' (8.35m)	489 ft² (45.4m ²)
> GC40T	28" (711 mm)	20" (508 mm)	18.7" (475mm)	6.9 (8.3)	187 in² (1,206 cm ²)	16.8' (5.12m)	45' (13.72 m)	756 ft² (70.25m ²)

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