

GC40T standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells and 11 cells wide. Each strip is the appropriate width and 300 inches (7.62m) in length. Weld spacing is 28.0 in ± 0.12 in. (355 ± 3mm). Cell density is 8.3 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 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 D1505	lb/ft ³ (g/cm ³)	58.4-60.2 (0.935-0.965)
> Environmental Stress Crack Resistance	ASTM D1693	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)	50 (1.27) -5%, +10%
> Nominal Sheet Thickness after texturing	ASTM D5199	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	Unit	Test Value
> Nominal - Expanded Cell Size (width x length)	in (mm)	20 (508) x 18.7 (475)
> Nominal - Expanded Cell Area	in ² (cm ²)	187 (1206)
> Nominal - Expanded Panel Size (width x length)	ft (m)	16.8 (5.12) x 45 (13.72)
> Nominal - Expanded Panel Area	ft ² (m ²)	756 (70.25)
> Internal Junction Efficiency ¹	%	≥100
> Mechanical Junction Efficiency	%	≥100
> Peak Friction Angle Ration (δ/Ø) granular material	unitless	0.95

> 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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