

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 312 inches (7.93m) in length. Weld spacing is 28.0 in ± 0.12 in. (711 ± 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 D 1505	lb/ft ³ (g/cm ³)	58.4-60.2 (0.935-0.965)
> Environmental Stress Crack Resistance	ASTM D 5397	hours	>400
	ASTM D 1693	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%60
> Nominal Sheet Thickness ⁽¹⁾ after texturing	ASTM D 5199	mil (mm)	(1.52) -5%, +10%

PHYSICAL PROPERTIES

Description	Unit	Test Value
> Nominal - Expanded Cell Size (length x width)	in (mm)	18.7 (475) x 20 (508)
> Nominal - Expanded Cell Area	in ² (cm ²)	187 (1206)
> Nominal - Expanded Panel Size (width x length)	ft (m)	18.5 (5.64) x 45(13.72)
> Nominal - Expanded Panel Area	ft ² (m ²)	833 (77.4)

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



Industrial Fabrics, Inc.
510 O' Neal Lane Ext
Baton Rouge, LA 70819
800 848 4500

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