

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 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 before texturing | ASTM D 5199 | mil (mm) | 50 (1.27) -5%, +10% |
| > Nominal Sheet Thickness after texturing | ASTM D 5199 | mil (mm) | 60 (1.52) -5%, +10% |

PHYSICAL PROPERTIES

| Description | Unit | Test Value |
|--|------------------------------------|----------------------------|
| > Nominal - Expanded Cell Size (length x width) | in (mm) | 11.3 (287) x 12.6 (320) |
| > Nominal - Expanded Cell Area | in ² (cm ²) | 71.3 (460) |
| > Nominal - Expanded Panel Size (width x length) | ft (m) | 17.85 (5.44) x 27.4 (8.35) |
| > Nominal - Expanded Panel Area | ft ² (m ²) | 489 (45.4) |

| | | | | | | |
|----------------------|---|------------------|-------------------|-------------------|-------------------|-------------------|
| > 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. | | | | | |



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