BASELOK®
by Industrial Fabrics, Inc.

GEOCELL | GC20T

GC20T standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells and 21 cells wide. Each strip is the appropriate width and 300 inches (7.62m) in length. Weld spacing is 14.0 in ± 0.12 in. (355 ± 3mm). Cell density is 34.6 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^2 (140 to 200 per in^2).

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 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)	**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)	**10.2** (259) x **8.4** (259)
> Nominal - Expanded Cell Area	in^2 ($cm^{2)}$	**44.8** (289)
> Nominal - Expanded Panel Size (width x length)	ft (m)	**17.85** (5.44) x **21.4** (6.52)
> Nominal - Expanded Panel Area	ft^2 (m^2)	**382** (35.5)
> 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 Peel Strength	lbf (N)	**160** (710)	**240** (1065)	**320** (1420)	**480** (2130)	**640** (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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