GeoTrans Technology
Innovative Geosynthetics to Global Needs

G-Cell® Geocell Series

G-Cell® Geocell is a three dimensional cellular structure made from high density polyethylene and ultrasonically welded together or other methods link to be an extremely strong configuration. When filled with compacted soil, concrete, sand or gravel, G-Cell® geocell reduces soil erosion caused by the lateral movement of particles. As pressure is applied to the soil, the tensile stress on the cell wall increases.
Features：Lightweight and flexible， easy to install, cost effective;
Applications: Load support, slope protection, retaining wall, channel protection.

Properties	Value Type	Unit	Small-G-Cell	Medium-G-Cell	Large-G-Cell
75mm Cell Depth					
Polymer	-	-	HDPE	HDPE	HDPE
Carbon Black Content [ASTM D 1603]	Typical	%	1-2%	1-2%	1-2%
Density [ASTM D 1505]	Typical	g/cm3	0.94-0.96	0.94-0.96	0.94-0.96
Sheet Thickness* [ASTM D 5199]	Typical	mm	1.50	1.50	1.50
Seam Peel Strength* [ENISO 13426-1]	Typical	N	≥1160	≥1160	≥1160
Splitting Strength [ENISO 13426-1]	Typical	N	2250	2250	2250
Weld Spacing	Typical	mm	350	440	710
Cell Depth	Typical	mm	75	75	75
Environmental Stress Crack Resistance [ASTM D 1693]	Typical	hours	>7000	>7000	>7000
100mm Cell Depth					
Polymer	-	-	HDPE	HDPE	HDPE
Carbon Black Content [ASTM D 1603]	Typical	%	1-2%	1-2%	1-2%
Density [ASTM D 1505]	Typical	g/cm3	0.94-0.96	0.94-0.96	0.94-0.96
Sheet Thickness* [ASTM D 5199]	Typical	mm	1.50	1.50	1.50
Seam Peel Strength* [ENISO 13426-1]	Typical	N	≥1600	≥1600	≥1600
Splitting Strength [ENISO 13426-1]	Typical	N	2250	2250	2250
Weld Spacing	Typical	mm	350	440	710
Cell Depth	Typical	mm	100	100	100
Environmental Stress Crack Resistance [ASTM D 1693]	Typical	hours	>7000	>7000	>7000
150mm Cell Depth					
Polymer	-	-	HDPE	HDPE	HDPE
Carbon Black Content [ASTM D 1603]	Typical	%	1-2%	1-2%	1-2%
Density [ASTM D 1505]	Typical	g/cm3	0.94-0.96	0.94-0.96	0.94-0.96
Sheet Thickness* [ASTM D 5199]	Typical	mm	1.50	1.50	1.50
Seam Peel Strength* [ENISO 13426-1]	Typical	N	≥2400	≥2400	≥2400
Splitting Strength [ENISO 13426-1]	Typical	N	2250	2250	2250
Weld Spacing	Typical	mm	350	440	710
Cell Depth	Typical	mm	150	150	150
Environmental Stress Crack Resistance [ASTM D 1693]	Typical	hours	>7000	>7000	>7000
200mm Cell Depth					
Polymer	-	-	HDPE	HDPE	HDPE
Carbon Black Content [ASTM D 1603]	Typical	%	1-2%	1-2%	1-2%
Density [ASTM D 1505]	Typical	g/cm3	0.94-0.96	0.94-0.96	0.94-0.96
Sheet Thickness* [ASTM D 5199]	Typical	mm	1.50	1.50	1.50
Seam Peel Strength	Typical	N	≥3200	≥3200	≥3200
Splitting Strength [ENISO 13426-1]	Typical	N	2250	2250	2250
Weld Spacing	Typical	mm	350	440	710
Cell Depth	Typical	mm	200	200	200
Environmental Stress Crack Resistance [ASTM D 1693]	Typical	hours	>7000	>7000	>7000
Physical Identification Properties					
Product Dimensions	-	-	Small-G-Cell	Medium-G-Cell	Large-G-Cell
Width (After compression and folding)	Typical	m(<=)	According to customization		
Length (After compression and folding)	Typical	m	According to customization		
Approx Load Q'ty / 40' HQ	-	Sq. m	-	-	-

Above the values listed are the average values, the data was obtained from in-house test laboratory, National test institutes and international test institutes. GeoTrans keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, GeoTrans does not warrant its accuracy or completeness. The only warranty made by GeoTrans for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by GeoTrans and customer.GeoTrans specifically disclaims all other warranties express or implied, including without agreed by GeoTrans and customer. GeoTrans specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or rising from provision of samples, a course of dealing or usage of trade.

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