



1. Definition

Geocell is manufactured from high-density polyethylene(HDPE) strips that are ultrasonically welded together to form a three-dimensional honeycomb matrix that can be filled with soil , sand , aggregate or concrete.....

2. Specification sheet

Material Properties		Test Method	Unit	Test Value		
Polymer type	ASTM D 1505		g/cm ³	polyethylene resins with density of 0.940-0.960		
Carbon black content	ASTM D 1603		% by weight	2%		
Environmental Stress						
Crack Resistance	ASTM D 1693		hrs	3000(minimum)		
Strip thickness	ASTM D 5199		mm	1.7 ± 0.1		
Surface treatment	-		-	Smooth or Textured / Solid wall or perforated		
Physical Properties		Unit	Typical Value			
Cell type	-		GPQ - L			
Nominal expanded cell size (W x L)	mm		505x473			
Expanded section width	m		2.6			
Expanded section length	m		9.2			
Standard cells per section (W x L)	-		5 x 20			
Expanded section area	m ²		23.9			
Seam welding strength	kN/m		14.2			
Cell depths Available	mm	75	100	120	150	200
Seam Peel Strength per U.S.Army Corps of Engineers Technical Report GL-86-19 , Appendix A	N	1065	1420	1700	2130	2840
Color	-					

The information contained herein is , to the best of our knowledge , accurate in all material respects