

PRODUCT DATA



STRATAGRID®

Stratagrid is a geogrid reinforcement for soil. These high performance geogrids are constructed of high molecular weight and high tenacity knitted polyester yarns utilizing a complex knitting process and a polymeric coating to provide superior engineering properties. Stratagrid is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments (pH range from 3-9).

Design Properties										
Ultimate and Creep Limited Tensile Strengths			Microgrid ^{1,2}	SG150'	SG200	SG350	SG500	SG550	SG600	SG700
Ultimate Strength ^{2,3}	ASTM D 6637 Method A Single-Rib	lbs/ft (kN/m)	2,000 (29.2)	1,875 (27.4)	3,600 (52.5)	5,000 (73.0)	6,400 (93.4)	8,150 (118.9)	9,100 (132.8)	11,800 (172.2)
Creep Limited Strength	ASTM D 5262 D 6992	lbs/ft (kN/m)	1,149 (16.8)	1,210 (17.7)	2,323 (33.9)	3,226 (47.1)	4,129 (60.3)	5,258 (76.7)	5,871 (85.7)	7,613 (111.1)
Long-term Design Strength (LTDS or T _{al}) ⁴										
Sands, Silt and Clay		lbs/ft (kN/m)	871 (12.7)	1,000 (14.6)	2,011 (29.3)	2,793 (40.8)	3,575 (52.2)	4,552 (66.4)	5,083 (74.2)	6,591 (96.2)
Molecular Properties										
Item			Test Method		Unit		Spec			
Molecular Weight (min)			GRI GG8		g/mol		25,000			
Caboxyl End Group (CEG) Count (max)			GRI GG7		meq/kg		30			
Physical Properties										
Roll Dimensions ⁵	Width x Length	feet (m)	8 x 225 (2.44 x 68.6)	6 x 150 (1.83 x 45.7)	6 x 300 (1.83 x 91.4)	6 x 300 (1.83 x 91.4)	6 x 300 (1.83 x 91.4)	6 x 300 (1.83 x 91.4)	6 x 300 (1.83 x 91.4)	6 x 300 (1.83 x 91.4)
				12 x 150 (3.66 x 45.7)	12 x 150 (3.66 x 45.7)	12 x 200 (3.66 x 61.0)	12 x 200 (3.66 x 61.0)	12 x 200 (3.66 x 61.0)	12 x 200 (3.66 x 61.0)	12 x 200 (3.66 x 61.0)
Area		Sq.yds (Sq.m)	200 (167.2)	100/200 (83.6/167.2)	200/200 (167.2/167.2)	200/267 (167.2/223.0)	200/267 (167.2/223.0)	200/267 (167.2/223.0)	200/267 (167.2/223.0)	200/267 (167.2/223.0)