Reinforcement

ADS SG150 GEOGRID SPECIFICATION

ADS SG150 is a geogrid reinforcement for soil. These high performance geogrids are constructed of high molecular weight and tenacity polyester yarns utilizing a complex knitting process and polymeric coating to provide superior engineering properties. It 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

Properties[1,2]	Test Method	Unit	Nominal Minimum Average Roll
Ultimate Strength (MD)[3]	ASTM D6637	lbs/ft (kN/m)	1,875 (27.4)
Creep Limited Strength	ASTM D5262	lbs/ft (kN/m)	1,136 (16.6)

Long-Term Design Strength

Item	Unit	Typical Value
Sands, Silt & Clay	lbs/ft (kN/m)	861 (12.6)

Molecular Properties

Item	Test Method	Unit	Spec
Molecular Weight	GRI GG8	g/mol	25,000
Caboxyl End Group (CEG) Count (max)	GRI GG7	meq/kg	30

Physical Properties

Properties	Unit	Dimensions
Roll Dimensions (W x L)	ft (m)	6/12 x 150 (1.83/3.66 x 45.7)
Area	yds^2 (m^2)	100/200 (83.6/167.2)
Product Weight[4]	oz/sy (g/m^2)	5.5 (186.5)
Weight Per Roll[4]	lbs (kg)	45/80 (20.4/36.3)

Notes:
1. Denotes both machine and cross-machine direction strength (Biaxial strength).
2. Minimum Average Roll Values for machine direction unless otherwise noted.
3. Roll weights are average values including shipping cores. Actual roll weights may vary.
4. At time of manufacturing, handling, storage and shipping may change these properties.