



Reinforcement

ADS SG350 GEOGRID SPECIFICATION

ADS SG350 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) | 5,000 (73.0) |
| Creep Limited Strength | ASTM D5262 | lbs/ft (kN/m) | 3,226 (47.1) |

Long-Term Design Strength

| Item | Unit | Typical Value |
|--------------------|---------------|---------------|
| Sands, Silt & Clay | lbs/ft (kN/m) | 2,666 (38.9) |

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 x 300 (1.83 x 91.4) / 12 x 225 (3.66 x 68.6) |
| Area | yds ² (m ²) | 200/300 (167.2/250.8) |
| Product Weight ⁴ | oz/sy (g/m ²) | 7.0 (237.3) |
| Weight Per Roll ⁴ | lbs (kg) | 100/143 (45.4/64.8) |

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.