

SPORTGRIDS



SportGrids are safe, non-toxic, polypropylene fibers, typically 1-2 inches long, fibrillated or tape polypropylene strands that are mixed or blended into sand or clay soils. During the blending process the fibers open or filamentize into net, grid and fiber configurations that mechanically reinforce any soil classification. This process creates a new soil structure with enhanced engineering properties that have been specifically designed to maximize shear strength.



Soil enhanced with SportGrids exhibit greatly improved performance properties. Stress-strain curves from unconfined compression tests show the addition of fibers increase the strain energy and residual bearing capacity when compared to un-reinforced or chemically treated soil systems. Triaxial and direct shear tests show a 20 to 50 percent increase in the shear strength of cohesive soils reinforced with fibers. Depending upon actual soil characteristics and desired performance levels, a design specific dosage rate of SportGrids is mixed into the soil using standard construction methods. The end result is an isotropic, reinforced soil with enhanced engineering properties and performance characteristics. Because of its simple application method, SportGrids are the ideal solution for soil reinforcement in synthetic field application.

SOIL REINFORCEMENT

Product Advantages

- Increased load bearing
- Increased shear strength of existing soil
- Improved Porosity = Better Drainage
- Reduced excavation and backfill
- Strong yet flexible; resists damage
- Environmentally Friendly



SPORTGRIDS® 60MLTF

PRODUCT SPECIFICATION SHEET

Description: Polypropylene Fibers for Soil & Turf Reinforcement.

Materials: Discrete, fibrillated polypropylene fibers shall be inert and shall conform to the following properties:

Property	Test Method	Requirement
Polypropylene	ASTM D4101 Group 1/Class 1/ Grade 2	99% Minimum
Moisture Absorption	-----	Nil
Fiber Length	Measured	0.5 & 0.75 inch, minimum
Color	-----	Tan, Green
Specific Gravity	ASTM D792	0.91 gm/cm ³
Carbon Black Content	ASTM D1603	N/A
Tensile Strength	ASTM D2256	30,000 psi, minimum
Tensile Elongation	ASTM 2256	20%, maximum
Young's Modulus	ASTM D2101	500,000 psi, minimum

Packaging / Storage: The specified fibers to be packaged in sealed, weatherproof polypropylene 50 lb Bales to be Palletized or 1,000 lb Palletized Bulk Bags. Each Bale / Bag to be properly identified as to the contents with the following information:

Product Name
 Manufacturer Name / Address
 Style Designation
 Net Weight
 Outside storage acceptable with limited UV exposure.

Seller makes no warranty, express or implied, concerning the product furnished hereunder other than it shall be of the quality and specifications stated herein. ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED AND TO THE EXTENT THAT IT IS CONTRARY TO THE FOREGOING SENTENCE, ANY IMPLIED WARRANTY OR MERCHANTABILITY IS EXPRESSLY EXCLUDED. Any recommendations made by Seller concerning uses or application of said product are believed reliable and Seller makes no warranty of results obtained. This Data Sheet supersedes all previous Data Sheets for this style and is subject to change without notice.

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