

GREENSCAPES® GS-300

DRAINAGE COMPOSITE

DESCRIPTION

GREENSCAPES GS-300 Drainage Composite consists of a polypropylene drainage core of fused, entangled filaments and a non-woven polypropylene filter fabric bonded to the top side. The entangled filaments are molded into a square waffle pattern that maintains this flexible design. GS-300 is installed with the filter fabric side up to accept the placement of growing media. The material content of the product includes 40% post-industrial recycled polymer by weight.

APPLICATIONS

For use in:

- Green roofs
- Exterior planters

FEATURES AND BENEFITS

- Excellent durability
- Conforms to irregular surfaces and corners
- Lays flat when unrolled – has very little to no roll memory
- Maintains continuous flow under high loads
- Long rolls reduce installation costs –fewer seams
- Recycled content contributes to LEED points
- 3-inch fabric overlap

PHYSICAL PROPERTIES

| PROPERTY | TEST STANDARD | TYPICAL VALUE |
|-----------------------|-------------------------------|--|
| Core Material | | Recycled polypropylene |
| Thickness | | 0.45 in (11.43 mm) |
| Weight | | 20.5 oz./yd ² (695.2 g/m ²) |
| Compressive Load Test | ASTM 1621 mod. and ASTM D4716 | 30,000 psf (1,436 kN/m ²) |

FLOW RATES

| PRESSURE | 1.0 GRADIENT | 0.5 GRADIENT | 0.2 GRADIENT |
|----------|------------------------|------------------------|-----------------------|
| 100 psf | 22.5 gal/min/ft. width | 15.5 gal/min/ft. width | 9.2 gal/min/ft. width |
| 250 psf | 22.5 gal/min/ft width | 15.5 gal/min/ft. width | 9.2 gal/min/ft. width |
| 500 psf | 22.0 gal/min/ft width | 15.2 gal/min/ft. width | 8.7 gal/min/ft. width |
| 1000 psf | 19.0 gal/min/ft width | 14.3 gal/min/ft. width | 8.4 gal/min/ft. width |

*Typical flow vs. pressure ASTM D 4716. Sample configuration: plate/GS-300/plate. Values are average of machine direction and cross machine direction test results

GREENSCAPES® GS-300 DRAINAGE COMPOSITE

| PHYSICAL PROPERTIES | | |
|---|---------------|---|
| PROPERTY | TEST STANDARD | TYPICAL VALUE |
| Polymer | | Polypropylene |
| Fabric Color | | Black |
| Weight | ASTM D 5261 | 4.5 oz/yd ² (152.6 g/m ²) |
| Grab Strength MD/CD | ASTM 4632 | 120.0 lbs (0.52 kN) |
| Grab Elongation | ASTM D 4632 | 50% |
| Trapezoid Tear | ASTM D 4533 | 50.0 lbs (0.22 kN) |
| Puncture Strength | ASTM D 4833 | 70.0 lbs (0.31 kN) |
| AOS (maximum average) | ASTM D4751 | 70 US Sieve (0.212 mm) |
| Flow Rate | ASTM D 4491 | 120 gal/min/ft ² (4,887 l/sec/m ²) |
| Permittivity | ASTM D 4491 | 1.8 sec ⁻¹ |
| *Values are MARV Minimum Average Roll Value | | |

POLYMER PROPERTIES

Polypropylene has excellent resistance to organic solvents, degreasing agents, acids and alkalines. It has tensile strength superior to high density polyethylene. It has a low moisture absorption rate, is resistant to staining, and is very lightweight.

| PACKAGING | |
|-------------------|--|
| PROPERTY | TYPICAL VALUE |
| Roll Width | 39.0 in (99.1 cm) |
| Roll Length | 100.0 ft (30.5 m) |
| Area | 324.0 Ft ² (30.1 m ²) |
| Roll Diameter | 27.0 in (68.5 cm) |
| Gross Roll Weight | 55.0 lbs (24.5 kg) |

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