

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

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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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