

ECODRAIN-S Drainage Composite

BIGGER IS BETTER



High Performance Drainage Composite

- Polypropylene cores provide: (1) resistance to chemicals and temperature, (2) a waterproofing barrier, (3) durability.
- Bonded geo-textile prevents soil from clogging the drainage channel.
- Flexibility for easy detailing of corners without cracking and to handle movement.
- 6' width provides minimal overlapping seams and cost effective installation.
- High compressive strength to handle the most demanding water control problems.

PROPERTY	TEST METHOD	2000	6000	6200	9000
CORE		Polypropylene	Polypropylene	Polypropylene	Polypropylene
Color		Black	Black	Black	Black
Dimple Height	ASTM D 1777-96	0.39" (10 mm)	0.39" (10 mm)	.039" (10 mm)	0.39" (10 mm)
Compressive Strength	ASTM D 6364-06	11,000 psf (527 kN/m ²)	15,100 psf (723 kN/m ²)	15,100 psf (723 kN/m ²)	18,000 psf (862 kN/m ²)
Thickness	ASTM D 1777-96	0.39 in. (10 mm)	0.39 in. (10 mm)	0.39 in. (10 mm)	0.39 in. (10 mm)
FILTER FABRIC					
Grab Tensile	ASTM D 4632-91	100 lbs. (445 N)	100 lbs. (445 N)	100 lbs. (445 N)	365 lbs. (1624 N)
Elongation	ASTM D 4632-91	60%	60%	60%	24%
Trapezoidal Tear	ASTM D 4533-91	45 lbs.	45 lbs.	45 lbs.	115 lbs. (512 N)
Puncture Strength	ASTM D 4833-88	65 lbs. (289 N)	65 lbs. (289 N)	65 lbs. (289 N)	90 lbs. 65 lbs. (401 N)
Apparent Operating Size	ASTM D 4751-99	70 sieve size (.0212 mm)	70 sieve size (.0212 mm)	70 sieve size (.0212 mm)	40 sieve size (.042 mm)
Mullen Burst	ASTM D 3786	210 psi (1446 kPa)	210 psi (1446 kPa)	210 psi (1446 kPa)	150 psi (3100 kPa)
Water Flow Rate	ASTM D 4491-99	140 gpm/ft ² (5703 l/min/m ²)	140 gpm/ft ² (5703 l/min/m ²)	140 gpm/ft ² (5703 l/min/m ²)	145 gpm/ft ² (5907 l/min/m ²)
Weight Typical	ASTM D 5261-92	4.0 oz/yd ² (135 g/m ²)	4.0 oz/yd ² (135 g/m ²)	4.0 oz/yd ² (135 g/m ²)	6.1 oz/yd ² (206 g/m ²)
UV Resistance	ASTM D 4355-92	70% (500 hrs.)	70% (500 hrs.)	70% (500 hrs.)	90% (500 hrs.)
COMPOSITE SYSTEM					
Water Flow Rate (V)	ASTM D 4716-99	18 gal/min/ft (223 l/min/m)	18 gal/min/ft (223 l/min/m)	18 gal/min/ft (223 l/min/m)	27 gal/min/ft (334 l/min/m)
Water Flow Rate (H)	ASTM D 4716-99	3.2 gal/min/ft (40 l/min/m)	3.2 gal/min/ft (40 l/min/m)	3.2 gal/min/ft (40 l/min/m)	5.4 gal/min/ft (67 l/min/m)
Roll Size		6.0 ft.x 50 ft.	6.0 ft.x 50 ft.	6.0 ft.x 50 ft.	6.0 ft.x 50 ft.
Roll Weight	ASTM D 4716	56 lbs.	63 lbs.	64 lbs.	70 lbs.

EPRO SERVICES
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1. PRODUCT NAME

ECODRAIN-S

2. MANUFACTURER

EPRO SERVICES, INC.
P.O. Box 347
Derby, KS 67037
PHONE: 800-882-1896
FAX: 316-262-2529

3. PRODUCT DESCRIPTION

Basic Use:

ECODRAIN-S has been specifically designed to meet the drainage and protection requirements in structurally demanding below-grade waterproofing applications. ECODRAIN-S drainage composites effectively eliminate hydrostatic pressure against below-grade structures and aid in de-watering saturated soil by collecting and conveying groundwater to a drain pipe for discharge while protecting the waterproofing membrane.

Composition:

ECODRAIN-S features a lightweight three-dimensional, high-compressive strength polypropylene core and bonded polypropylene fabric. This bonding prevents backfill from pushing fabric into the flow channels and reducing water-flow. The filter fabric allows water to pass freely into the molded drain core where gravity draws the water through the flow channels to the discharge system, while preventing soil particles from entering and clogging the core structure and discharge pipe, significantly increasing the effectiveness and service life of the drain system.

Benefits:

- Polypropylene core provides: (1) resistance to chemical attack from soil, (2) secondary waterproofing barrier, (3) thermal resistance, and (4) flexibility for easy detailing of corners.

- Bonded geo-textile will not delaminate from core in warm temperatures.

- Maintains flexibility even in freezing temperatures.

- 6' width provides minimal overlapping of seams and very cost effective installation.

Limitations:

Should not be exposed to long duration of UV.

4. TECHNICAL DATA

Properties: See chart

Coverages: See chart.

Specification Writer:

Contact EPRO Services before writing specifications on this product. Test information available upon request.

5. INSTALLATION

Preparation: See specific application guide specifications.

Application: Should be applied in accordance with specific application guide specifications.

Tools: No special tools required for installation.

6. AVAILABILITY AND COST

Contact the local distributor and / or Authorized Applicator for availability and cost.

7. WARRANTY

Limited Warranty: EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

8. MAINTENANCE

No maintenance required.

9. TECHNICAL SERVICES AND INFORMATION

Complete technical services and information are available from EPRO Services.

