

POLYFLOW[®] 10, 10P, 15, 15P

Sheet Molded Drainage

Product Data Sheet

PRODUCT NAME

Polyflow[®] 10, 10P, 15, 15P

MANUFACTURER

Polyguard Products, Inc.
Ennis, TX 75119
(214) 515-5000
www.polyguard.com

PRODUCT DESCRIPTION

Polyflow[®] is a sheet molded drain that establishes predetermined pathways for below-grade water management. The fabric allows water to pass into the drain core while restricting the movement of soil particles which might clog the core. The core allows the water to flow to designated drainage exits. Polyflow 10/10P/15/15P Sheet Molded Drainage are designed for vertical applications and are suitable as protection layers for Polyguard waterproofing membranes.

BASIC USES

Basic uses include the following:

- Below-grade relief of hydrostatic pressure over foundation, planter and retaining walls, when connected to a passive gravity drain or operational sump.
- Use with Totalflow[™] and Totalflow accessory outlets; a high capacity collector and outlet drainage system.
- Use with perforated pipe outlet drainage systems.
- Construction of French, interceptor, and earthen dam drains
- For Polyflow Sheet Molded Drainage construction of a protection course for post-applied sheet and fluid-applied waterproofing membranes.

COMPOSITION AND MATERIALS

Polyflow[®] 10, 10P, 15, & 15P Sheet Molded Drainage Mats are manufactured with a geo-composite of a formed impermeable polypropylene core covered on one side with a polypropylene filter fabric. The Polyflow 10P & 15P also have a protection layer of PET film.

TECHNICAL DATA

See physical properties table.

VERTICAL INSTALLATION

Place Polyflow[®] Sheet Molded Drainage over earth retention systems, waterproofing membranes, or natural rock. Use in one of, or a combination of, the following methods to protect the core area from infiltrating soil or foreign particles.

- Shingle the drainage, one higher sheet over another;
- Shingle the fabric, one fabric over another;
- Tape relief cuts, made during shaping of an outside corner, with duct tape.

- Top termination tape or glue to wall or back side of core to prevent infiltration of backfill.

Over earth retention system or natural rock, place the drainage fabric to interface with the earth retention system or natural rock. Over post-applied sheet or fluid waterproofing, place the drainage so the fabric side will interface with the backfill material.

FASTENING / HOLDING IN POSITION

Hold the drainage in position over earth retention system or natural rock with minimum 1" diameter capped fasteners, suited to the substrate. Space fasteners so the drainage will remain in place during the covering activity of concrete placement or sheet waterproofing and concrete placement.

Hold the drainage in place over post-applied sheet or fluid waterproofing with either 650 LT Liquid Adhesive, California Sealant, Quick Grip Adhesive, or another low-rise spray adhesive compatible with the waterproofing membrane. Apply enough adhesive/ sealant/glue material to secure the drainage during backfilling activity.

TIE-INS

Tie the drainage to Totalflow[™] in any of the methods as stated in the first paragraph of VERTICAL INSTALLATION.

Tie the drainage to perforated drainage pipe with a covering of filter fabric of the drainage placed over the top of the pipe; do this by either peeling back the filter fabric from the drainage, removing the uncovered drainage section and then covering the pipe with the filter fabric, or by gluing a cover piece of filter fabric to the filter fabric of the drainage, with its loose end covering the pipe.

RECOMMENDED ADHESIVES

650 LT Liquid Adhesive, California Sealant, Quick Grip Adhesive, or low-rise spray adhesive.

BACKFILLING

Backfill soil or aggregate in a non-destructive manner. Compact in maximum 12" lifts. For backfilling over drainage glued to a sheet or fluid waterproofing membrane, take care to keep the material on the soil side of the drainage; that is from between the drainage and waterproofing membrane. Polyflow[®] 10/10P has a backfill limit of 10-12 feet.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.
 P.O. Box 755, Ennis, TX 75120-0755
 Sales: (615) 217-6061 • Tech Support: (214) 515-5000 • Fax: (615) 691-5500
 Email: archtech@polyguard.com
 Website: www.polyguard.com

| PROPERTY | TEST METHOD | TYPICAL VALUE | | | |
|---------------------------------|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | POLYFLOW® 10 | POLYFLOW® 10P | POLYFLOW® 15 | POLYFLOW® 15P |
| <u>DRAIN PROPERTIES</u> | | | | | |
| FLOW CAPACITY | D 4716 | 18 g/min/ft | 18 g/min/ft | 21 g/min/ft | 21 g/min/ft |
| ROLL LENGTH | - | 50 ft. | 50 ft. | 50 ft. | 50 ft. |
| ROLL WIDTH | - | 4 ft. | 4 ft. | 4 ft. | 4 ft. |
| ROLL WEIGHT | - | 38 lbs. | 38 lbs. | 39 lbs. | 40.5 lbs. |
| <u>CORE PROPERTIES</u> | | | | | |
| MATERIAL | - | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| THICKNESS | D 1777 | 0.40 inch | 0.40 inch | 0.40 inch | 0.40 inch |
| COMPRESSIVE STRENGTH | D 1621 Modified | 11,000 lbs/ft ² | 11,000 lbs/ft ² | 15,000 lbs/ft ² | 15,000 lbs/ft ² |
| POLYMERIC FILM LAYER | - | No | Yes | No | Yes |
| <u>FABRIC PROPERTIES</u> | | | | | |
| MATERIAL | - | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| GRAB TENSILE STRENGTH | D 4632 | 100 lbs. | 100 lbs. | 100 lbs. | 100 lbs. |
| CBR PUNCTURE STRENGTH | D 6241 | 250 lbs. | 250 lbs. | 250 lbs. | 250 lbs. |
| EOS (AOS) | D 4751 | 70 US Sieve | 70 US Sieve | 70 US Sieve | 70 US Sieve |
| FLOW RATE | D 4491 | 140 g/min/ft ² | 140 g/min/ft ² | 140 g/min/ft ² | 140 g/min/ft ² |

| PACKAGING DRAINAGE & ACCESSORIES | PART NUMBER | UNIT SIZE |
|-------------------------------------|--------------------|------------------------|
| POLYFLOW® 10 | POLYFLOW10 | 4' x 50' roll |
| POLYFLOW® 10P | POLYFLOW10P | 4' x 50' roll |
| POLYFLOW® 15 | POLYFLOW15 | 4' x 50' roll |
| POLYFLOW® 15P | POLYFLOW15P | 4' x 50' roll |
| TOTALFLOW™ | TOTAL FLOW | 24" x 50' roll |
| TOTALFLOW™ END OUTLET (4") | OUTLET4-UNIV | N/A |
| TOTALFLOW™ TEE OUTLET (4") | TEE4-UNIV | N/A |
| 650 LT LIQUID ADHESIVE | 650-5 LIQ ADH 5 GA | 5 gallon pail |
| 650 LT LIQUID ADHESIVE | 650-5 LIQ ADH 1 GA | 4 – 1 gallon pails/ctn |
| CALIFORNIA SEALANT | CALSEAL5 | 5 gallon pail |
| QUICK GRIP ADHESIVE | QGADH30 | 30# canister |