

DRAINMAX® 680



TWO-PART GEO-TEXTILE COMPOSITE DRAINAGE

DESCRIPTION

DrainMax® 680 prefabricated sheet drain is composed of a dimpled polymeric core with a heavy-duty nonwoven geotextile bonded to the dimple side. The geotextile allows water to pass through while retaining backfill materials. The solid core allows water collection from one side and provides a continuous flow path to designated drainage exits. DrainMax® 680 is recommended for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a high-survivability geotextile.

1. Unless otherwise noted, all physical and performance properties listed are Typical Values as defined in ASTM D4439.
2. PP = Polypropylene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament: for use in planters.
3. AOS value listed is Maximum Average Roll Value.
4. In-plane flow rate measured under 3,600 psf (172 kPa) compressive load at hydraulic gradient of 1.0.
5. Pre-Consumer recycled content by weight.
6. Approximate packaged roll weight.

All technical information contained in this document is accurate as of revision date listed. Please contact your GMX Account Manager for the most current technical information available.

TECHNICAL DATA		
Physical Properties ¹	Test Method	Typical Values
GEOTEXTILE		
Material ²		PP, NPNW
Water Flow Rate	ASTM D4491	100 gpm/ft ²
		4,075 Lpm/m ²
Grab Tensile Strength	ASTM D4632	205 lbs
		912 N
CBR Puncture	ASTM D6241	580 lbs
		2,580 N
Trapezoidal Tear	ASTM D4533	80 lbs
		356 N
Apparent Opening Size (AOS) ³	ASTM D4751	80 sieve
		0.180 mm
Grab Elongation	ASTM D4632	60%
UV Resistance	ASTM D4355	70% / 500 Hrs
Permittivity	ASTM D4491	1.5 sec ⁻¹
CORE		
Thickness	ASTM D5199	0.40 in
		10 mm
Compressive Strength	ASTM D6364 /	18,000 psf
	ASTM D1621	862 kPa
In-Plane Flow Rate ⁴	ASTM D4716	21 gpm/ft
		261 Lpm/m
Perforated?		No
Backing Film for Softer Membranes		No
COMPOSITE		
Recycled Content ⁵	CALCULATED	> 70%
Roll Size	MEASURED	4 x 50 ft
Roll Weight ⁶	MEASURED	53 lbs



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Results may differ based upon statistical variations depending upon mixing methods and equipment, temperatures, application methods, test methods, actual site conditions and curing conditions. Installation conditions and methods can impact product performance. Consult your local GMX Sales Representative for Questions.

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