



POLYESTER GEOTEXTILE FABRIC SOCK SPECIFICATION

Scope

This specification designates the requirements for knitted sleeves of polyester geotextile which can be used as “sock” over Prinsco pipe.

General Characteristics

The knitting process produces uniformly-sized drainage openings, permitting exceptionally high water flow rates. Since sock is seamless, it does not require edge-joining by gluing or ultrasonic welding. The polyester is resistant to environmental degradation in service by rot, mildew, chemical attack, and insects.

Exposure to sunlight results in a gradual degradation of the fabric strength. If exposure to sunlight is expected to be longer than three months, the products should be covered or bagged.

Solution	Effect
Weak Acid	None
Strong Acid	None
Weak Alkaline	None
Strong Alkaline	Resistant
Organic Chemicals	None
Aqueous Salt Solutions	None

Method of Application to Pipe

Sock is mechanically applied around the corrugated plastic pipe as the final step in the pipe production process. A specific sock diameter is used for each pipe diameter. Bulk sock is also available for installation in the field.

Fabric Properties

The pre-installed filter fabric shall be a continuous monofilament fiber, spun-bonded polypropylene geotextile with the following properties.

Property	ASTM Test Method	Value
Fiber	-	Polyester
Weight, oz/yd ²	D3776	2.5 – 3.5
Thickness, (in)	-	.040
AOS, US Sieve	D4751	30
AOS, (UM)		600
Mullen Burst, PSI	D3786	100
Puncture Strength, lbs	D4833	NA
Water Flow Rate @ 3” head, GPM/ft ²	-	700
Water Permeability (K) GPM, in/s ⁻¹	-	.12
Air Permeability, CFM/ft ²	D737	700
UV Degradation	D4355	70%



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Physical Dimensions

Pipe ID	Yard Denier	Fabric Weight Relaxed Oz/yd ²	Fabric Weight Applied Oz/yd ²	Layflat Width in	Cross Stretch Width in	Applied Weight per 1,000 feet lbs
3"	150	5.40	3.50	5.50	10	23
4"	135	3.80	2.50	6.75	16	25
5"	150	4.30	2.80	7.00	17.5	30
6"	150	3.30	2.80	10.00	20.5	35
8"	150	3.50	3.00	14.00	25	52
10"	150	3.50	3.00	14.00	30	65
12"	150	3.50	3.00	16.00	35	81
15"	150	3.50	3.00	25.00	40	103
18"	150	3.50	3.00	27.50	42	115
24"	150	3.50	3.00	30.00	52	150