

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 specified 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 circular-knit geotextile fabric with the following properties.

Property	ASTM Test Method	Value
Fiber	-	Polyester
Weight Relaxed, oz/yd ²	D3887	3.0 - 3.9
Weight Applied, oz/yd ²		2.7 - 3.5
Thickness, in	D4491	0.024
AOS, US Sieve	D4751	30
AOS, um		600
Burst Strength, psi	D3786	110
Puncture Strength, lbs	D6241	225
Water Flow Rate @ 2" head, GPM/ft ²	D4491	300
Permittivity, sec ⁻¹	D4491	5.5
Water Permeability (K), in/sec	D4491	0.15
Air Permeability, CFM/ft ²	D737	700