CCIS Weeping Tile

Specifications

CORRUGATED HIGH DENSITY POLYETHYLENE PIPE

This specification mainly covers the requirements of corrugated high-density polyethylene (HDPE) pipe in accordance with ASTM F405 and ASTM F667/F667M. Nominal sizes include 100 mm (4″) and 150 mm (6″). Both sizes are available in solid, perforated or perforated with Geotextile filter.

Nominal Size	100 mm (4″)	150 mm (6″)
Nominal Inside Diameter	100 mm	150 mm
Nominal Outside Diameter	118 mm	175 mm

Test	Standard	Description	Specification	
Pipe Dimensions	ASTM F667/F667M	Inside Diameter	Nominal Diameter +5% –2 mm	
		Out of Roundness	Maximum 5%	
		Pipe Length	No Less Than 99% of Nominal Length	
Perforations		Perforation Area	Minimum 32 cm2/m	
Stiffness Test	ASTM F667/F667M ASTM D2412	Pipe Stiffness	Deflection	Stiffness
			5%	210 kPa
			10%	160 kPa
Elongation Test	ASTM F667/F667M	Elongation Resistance	Maximum 10%	
Joint Separation Test		Joint Pull-Out Resistance	No Separation Between Pipes and Joints	
Impact Test	ASTM D2444	Impact Resistance	No Splits or Cracks	
Carbon Test	ASTM D4218	Protection Against Solar Radiation	2% - 4% of Carbon Black	

Retest and Rejection
If any nonconformity of these specifications occurs, the tests will be performed again to confirm the specifications in accordance with agreement between the clients and the manufacturer.

Please call you local CCIS Geosynthetic Specialist for all your geosynthetic needs.

Spruce Grove, Alberta (780) 962-6559
Clairmont, Alberta (587) 771-0990
Fort St. John, BC (778) 844-0299
Terrace, BC (250) 922-4018
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Kamloops, BC (604) 860-5473

CROSS COUNTRY INFRASTRUCTURE SERVICES INC.

Type “A” Knitted Sock Geotxtiles

Performance Data Guide

	Test Method	TYPE “A” “White” or “Black” SOCK Filter
Permittivity (min.)	ASTM D4491	5.5 sec $^{-1}$
Puncture Resistance (min.)	ASTM D6241	1000 N
AOS (max.)	ASTM D4751	.600 mm 30 U.S. Sieve
ADDITIONAL INFORMATION		
FOS (max.)	CAN/CGSB-148.1,M10-94)	450 microns
Mass (relaxed)	ASTM D3887	3.0 - 3.9 oz/yd ^{2} 105 - 135 gm/m ^{2}
Mass (applied minimum)		2.7 - 3.5 oz/yd ^{2} 95 - 120 gm/m ^{2}
Thickness (min.)	ASTM D4491	24.0 mils
Permeability (K) (min.)	ASTM D4491	.390 cm / sec
Burst Strength (min.)	ASTM D3786	830kpa
Air Permeability (min.)	ASTM D737	700 ft^3/ft^2/min
Water Flow Rate (min.)	ASTM D4491 (2” constant head)	300 U.S. gal/min/ft^2
Fiber Content		polyester 100%
Yarn Denier		150
Specific Gravity		1.3
Melt Temperature		450º F (230º C)

NOTES:

1) The manufacturer and its subsidiaries support the use of ASTM 06707 “Standard Specification for Clrcular Knlt Geotextile for use In Subsurface Drainage Applications “ protocol when evaluation of their fabrics are undertaken. The reporting of additional fabric properties are provided for the benefit of the specifiers and users of these products .

2) Values reported are based on Independent laboratory evaluation and are considered to be true and accurate.

3) The manufacturer certifies that all values provided are Indicative of the fabrics properties at the time of manufacture and shipment to the original purchaser only. This certification Is not transferable. Any required certifications of compliance to a specific characteristic are the responsibility of the final seller of the fabric.

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