

Description

Enkadrain 9120 is a product consisting of a nylon core of fused, entangled filaments and a geotextile fabric bonded to one side.

Features and Benefits

- Excellent durability
- Continuous flow even under high loads
- Dimensionally stable in hot weather — not brittle in cold

Technical Data

Physical Properties

Property	English Units	Metric Units
Core Material	Nylon 6	
Thickness	0.8 in	20.3 mm
Total Weight	25.6 oz/yd ²	868.0 g/m ²
Core Weight	21.3 oz/yd ²	722.0 g/m ²
Colbond Compressive Load Test [†]	>30,000 psf	4713.0 g/m ² *No failure
Durability Characteristics	80% Strength Retention	
Low Temperature	-100° F	-73° C
High Temperature	250° F	121° C
Fuel & Gasoline Submersion	Stable	

[†] Colbond Test Method: ASTM 1621 modified & ASTM D 4716

* Failure defined as reaching yield point or no continued measurable flow under stated load

Packaging

Property	English Units	Metric Units	English Units	Metric Units
Product ID	9120-101-000C		9120-101-0C50	
Core Width	39.0 in	99.1 cm	39.0 in	99.1 cm
Length	100.0 ft	30.5 m	50.0 ft	15.3 m
Area	36.0 yd ²	30.1 m ²	18.0 yd ²	15.0 m ²
Area	324.0 ft ²	30.1 m ²	162 ft ²	15.0 m ²
Roll Diameter	35.0 in	88.9 cm	24.0 in	61.0 cm
Gross Roll Weight	62.0 lbs	28.1 kg	31.0 lbs	14.1 kg

Flow Rate

Pressure (psf)	Gal/Min/Ft
500	17.5
750	12.0
1000	8.0
1500	4.5
2000	3.0

* Typical flow rate vs. pressure for vertical wall applications (ASTM 4716)

Sample configuration: plate / Enkadrain 9120 / plate

Colbond Inc.

PO Box 1057
 Enka, NC 28728
 Telephone 800-365-7391
 Fax 828-665-5009



Enkadrain[®] 9120

Colbond Industrial Products

Fabric Properties

Property	English Units	Metric Units	Test Method
<i>Polymer</i>	<i>PA6 & PET</i>		
<i>Weight</i>	<i>3.54 oz/yd²</i>	<i>120.0 g/m²</i>	<i>ASTM D 3776</i>
<i>Grab Strength</i>	<i>125.0 lbs</i>	<i>556.0 N</i>	<i>ASTM D 4632</i>
<i>Grab Elongation</i>	<i>40%</i>	<i>40%</i>	<i>ASTM D 4632</i>
<i>Trapezoidal Tear</i>	<i>40.0 lbs</i>	<i>178.0 N</i>	<i>ASTM D 4533</i>
<i>Puncture Resistance</i>	<i>35.0 lbs</i>	<i>155.0 N</i>	<i>ASTM D 4833</i>
<i>Mullen Burst</i>	<i>160.0 psi</i>	<i>1102.0 kPa</i>	<i>ASTM D 3786</i>
<i>AOS (maximum average)</i>		<i>0.357 mm</i>	<i>ASTM D 4751</i>
<i>Flow Rate</i>	<i>185.0 gpm/ft²</i>	<i>125.0 l/sec/m²</i>	<i>ASTM D 4491</i>
<i>Permittivity</i>	<i>2.5 sec⁻¹</i>	<i>2.5 sec⁻¹</i>	<i>ASTM D 4491</i>
<i>Fabric Color</i>	<i>Grey</i>		

Polymer Properties

Nylon has excellent resistance to a variety of chemicals, alkalines, dilute acids, fuels and solvents found on construction sites. It is lightweight, but also is very wear and abrasion resistant. Nylon also has high tensile strength and a high heat distortion temperature.

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www.colbond-usa.com

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