

WOVEN GEOTEXTILE: MONOFILAMENT HIGH-STRENGTH

Product Data Sheet

Penteco HSW330 Woven Geotextile High-Strength

- ❖ **Drainage**
- ❖ **Separation**
- ❖ **Erosion Control**
- ❖ **Reinforcement**
- ❖ **Stabilization**
- ❖ **Protection**

Penteco carries three types of woven geotextiles viz., monofilament, slit film woven, and High strength woven geotextiles.

Penteco's High-strength woven geotextiles are made from monofilament yarn, or combination of different yarns, comprising monofilament yarns in one direction, and flat tape yarns in the perpendicular direction. Whilst monofilament yarn provides strength, the use of flat tape yarn in perpendicular direction provided better economy. These can be used for reinforcement applications in roads, GRS wall systems, and generally exhibit favorable hydraulic properties, similar to monofilament geotextiles.

HSW330		Minimum Average Roll Values	
Property	Test Method	Imperial	Metric
Material			
Woven Polypropylene (PP)	-	-	-
Mechanical			
Grab Tensile Strength	ASTM D-4632	450 lbs x 350 lbs	2.0 kN x 1.55 kN
Grab Elongation	ASTM D-4632	15%	15%
Wide Width Tensile Strength	ASTM D-4595	3600 x 3330 lb / ft	52.5 x 48.2 kN/m
CBR Puncture Resistance	ASTM D-6241	1400 lbs	6.22 kN
Trapezoidal Tear	ASTM D-4533	180 lbs x 140 lbs	0.8 kN x 0.622 kN
UV Resistance	ASTM D-4355	80% / 500 hours	80% / 500 hours
Hydraulic			
Apparent Opening Size	ASTM D-4751	30 US Sieve	0.6 mm
Permittivity	ASTM D-4491	0.52 sec ⁻¹	0.52 sec ⁻¹
Water Flow	ASTM D-4491	40 g/min/ft ²	1630 l/min/m ²
Dimensions			
Typical Roll Size	Measured	15 ft x 300 ft	4.57m x 91m
Area		4500 ft ²	416 m ²

Notes:

- (1) All roll widths/lengths have a tolerance of ±1 %.
- (2) Custom roll lengths can be ordered. Transportation cost might be affected.
- (3) Penteco is a distributor for this product. Manufacturing partners are based out of Canada & USA.
- (4) Manufacturer's data sheet provided at time of bid/purchase includes adjusted widths/lengths.

DISCLAIMER: The data above represents the manufacturer's laboratory testing of their product. It is the user's responsibility to determine the suitability of the products. Penteco is a distributor for these products through its manufacturing partners. Penteco will provide the manufacturers data sheet at the time of sale. There may be very slight variation, but overall, the data represents standard industry specifications. Penteco and manufacturing partners assume no liability, nor can they provide any warranty, without having additional information regarding the use of the products. The same goes for any infringement on patents - no permission can be granted without further disclosure.

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