Material Properties and Dimensions

Excel PP5-12™

Specifications

Western Excelsior manufactures a full line of Rolled Erosion Control Products (RECPs). Excel PP5-12 Turf Reinforcement Mat is composed of 100% synthetic components. A matrix of green polypropylene fibers is mechanically (stitch) bound between two UV stabilized, heavy duty synthetic nets. Stitching is secured on two inch centers using UV stabilized, heavy duty polypropylene thread. Excel PP5-12 is a permanent, three-dimensional TRM that provides immediate erosion protection and long term turf reinforcement and is intended for slope or channel applications requiring erosion protection for greater than thirty-six months.

Each roll of EXCEL PP5-12 is made in the USA and manufactured under Western Excelsior's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness. Typical manufactured properites are provided in Table 1 and product characteristics are provided in Table 2.

Table 1- Specified Expected Values

Tested Property	Test Method	Value
Tensile Strength (MD) x (TD)	ASTM D6818	20.8 lb/in (3.6 kN/m) x 17.7 lb/in (3.1 kN/m)
Elongation (MD) x (TD)	ASTM D6818	25 % x 25 %
Mass Per Unit Area	ASTM D6566	12.0 oz/yd^2 (407 g/m^2)
Thickness	ASTM D6525	0.38 in (10 mm)
Light Penetration	ASTM D6567	20 % open
Water Absorption	ASTM D1117	N/A %
Resiliency	ASTM D 6524	88 %
Porosity	Computed	96 %
UV Stability	ASTM D 4355	100% (500hr) / 90% (1000hr) %

Table 2 - Netting

Top Net Type	Synthetic, UV Stable
Bottom Net Type	Synthetic, UV Stable
Top Net Opening Dimensions	0.7 in (17 mm) x 0.7 in (17 mm)
Bottom Net Opening Dimensions	0.7 in (17 mm) x 0.7 in (17 mm)

Excel PP5-12 is available in multiple roll sizes ranging in width from 8.0 ft to 16.0 ft. and 112.5 ft to 600 ft in length. Standard roll sizes are 100 square yards, measuring 8.0 ft wide by 112.5 ft long. Custom roll sizes are available upon request.