**PRODUCT DATA SHEET**

**AEC PREMIER STRAW® DOUBLE NET FIBRENET™**

**DESCRIPTION**

AEC Premier StrawDouble Net FibreNet erosion control blanket (ECB) consists of the finest available agricultural straw with 75% four-inch fibers or greater fiber length. The straw fibers are evenly distributed throughout the entire area of the blanket. The top and bottom of each blanket is covered with 100% biodegradable jute netting. The product is 100% biodegradable when biodegradable thread is ordered. AEC Premier Straw Double Net FibreNet shall be manufactured in the U.S.A.

AEC Premier Straw Double Net FibreNet has a design soil loss ratio (event-based RUSLE C factor) of .05 and is typically suitable for slopes up to 2H:1V. AEC Premier Straw Double Net FibreNet is rated for channel flows up to 7.0 ft/s (2.1 m/s) and 1.75 lb/ft2 (84 Pa) shear stress.

**PHYSICAL PROPERTIES**

AEC Premier Straw Double Net FibreNet measurements at time of manufacturing:

|  |  |  |
| --- | --- | --- |
| **Width** | 8.0 ft (2.4 m) | 16.0 ft (4.9 m) |
| **Length** | 112.5 ft (34.3 m) | 112.5 ft (34.29 m) |
| **Area** | 100.0 yd2 (83.6 m2) | 200.0 yd² (167.2 m²) |
| **Weighta** | 50.0 lb (22.7 kg) | 100.0 lb (45.4 kg) |
| **Mass per Unit Area (± 10%)** | 0.50 lb/yd2 (0.27 kg/m2) | 0.50 lb/yd2 (0.27 kg/m2) |
| **Net Openings** | ≈ 0.5 in x 1.0 in (12.7 mm x 25.4 mm) | ≈ 0.5 in x 1.0 in (12.7 mm x 25.4 mm) |

**TYPICAL INDEX VALUES**

**Index Property** **Test Method** **Value**

Thickness ASTM D 6525 0.267 in (6.78 mm)

Light Penetration ASTM D 6567 24.0%

Mass per Unit Area ASTM D 6475 0.519 lb/yd2 (0.282 kg/m2)

MD-Tensile Strength Max. ASTM D 6818 213.6 lb/ft (3.12 kN/m)

TD-Tensile Strength Max. ASTM D 6818 152.4 lb/ft (2.22 kN/m)

MD-Elongation ASTM D 6818 16.6%

TD-Elongation ASTM D 6818 11.7%

Water Absorption ASTM D 1117/ECTC 371%

Bench-Scale Rain Splash ASTM D 7101 SLR = 12.47 @ 2 in/hr b,c

Bench-Scale Rain Splash ASTM D 7101 SLR = 10.98 @ 4 in/hr b,c

Bench-Scale Rain Splash ASTM D 7101 SLR = 9.68 @ 6 in/hr b,c

Bench-Scale Shear ASTM D 7207 2.01 lb/ft2 @ 0.5 in soil loss c

Germination Improvement ASTM D 7322 417%

a Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Straw fibers is 15%.

b SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. c Bench-scale index values should not be used for design purposes.