



**Material and Performance Specification**

**EC-4Y, EC-7Y, AND EC-9Y COIR MATS**

**Description:** Coir fiber is obtained from the bristles of the outer layer of the fruit of the Coconut tree and is 100% biodegradable. Coir Mats are woven with coir fiber yarns providing strength, environmental friendliness and functional longevity in excess of three years. The Coir Mats are available in three weights: EC-4Y – 400 grams/sq. meter; EC 7Y - 700 grams/sq. meter and EC 9Y -900 grams/sq. meter (12, 20 and 26 oz/sq yard, respectively).

**Materials:** **Netting** Coconut fibers yarns **Matrix** none **Thread** none

**Roll Size:**

	EC-4Y	EC-7Y	EC-9Y
<b>Width:</b>	6.5 ft (2.0 m)	6.5 ft (2.0 m)	6.5 ft (2.0 m)
<b>Length:</b>	131.0 ft (40 m)	131.0 ft (40 m)	131.0 ft (40 m)
<b>Area:</b>	95 yd <sup>2</sup> (80 m <sup>2</sup> )	95 yd <sup>2</sup> (80 m <sup>2</sup> )	95 yd <sup>2</sup> (80 m <sup>2</sup> )
<b>Weight ±10%:</b>	12 oz/yd <sup>2</sup> (400 g/m <sup>2</sup> )	20 oz/yd <sup>2</sup> (700 g/m <sup>2</sup> )	26 oz/yd <sup>2</sup> (900 g/m <sup>2</sup> )

**Index Value Properties**

Property	Test Method	EC-4Y	EC-7Y	EC-9Y
Mass/Unit Area	ASTM D5261	12.2 oz/yd <sup>2</sup> (413.0 g/m <sup>2</sup> )	21.6 oz/yd <sup>2</sup> (732.4 g/m <sup>2</sup> )	29.6 oz/yd <sup>2</sup> (1,003.6 g/m <sup>2</sup> )
Thickness	ASTM D5199	0.30 in. (7.7mm)	0.32 in. (8.1 mm)	0.34 in. (8.7mm)
Dry Tensile Strength-MD	ASTM D4595	742 lb/ft (10.8 kN/m)	1,382 lb/ft (20.2 kN/m)	1,694 lb/ft (24.7 kN/m)
Dry Elongation-MD	ASTM D4595	27.9%	27.9%	32.7%
Dry Tensile Strength-TD	ASTM D4595	444.0 lb/ft 6.5 kN/m	695.0 lb/ft (10.2 kN/m)	1,092 lb/ft (15.9 kN/m)
Dry Elongation-TD	ASTM D4595	29.0%	26.8%	22.9%
Wet Tensile Strength-MD	ASTM D4595	616 lb/ft (9.0 kN/m)	1,272 lb/ft (18.6 kN/m)	1,438 lb/ft (21.0 kN/m)
Wet Elongation-MD	ASTM D4595	33.5%	31.1%	28.1%
Wet Tensile Strength-TD	ASTM D4595	369 lb/ft (5.4 kN/m)	591 lb/ft (8.6 kN/m)	1,005 lb/ft (14.7 kN/m)
Wet Elongation-TD	ASTM D4595	26.9%	27.2%	28.7%

**Design Value Properties**

Property	EC-4Y	EC-7Y	EC-9Y
Shear Stress	3.0 lbs/ft <sup>2</sup> (143 Pa)	4.50 lbs/ft <sup>2</sup> (215 Pa)	5.50 lbs/ft <sup>2</sup> (263 Pa)
Velocity	8.0 ft/s (2.44 m/s)	12.0 ft/s (3.66 m/s)	16.0 ft/s (4.88 m/s)
C Factor	.003	.003	.002
Open Area – Calculated	65%	50%	38%

**Primary Usage**

Slopes	2:1	1:1	>1:1
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