Nedia Enterprises, Inc.

**Tel: (888) 725-6999**
**Fax: (571) 223-0202**

Technical Specifications for

# Nedia KoirMat™ 400

Nedia KoirMat™ 400 is a woven fabric of high strength coir twine made from well-cleaned, fresh water cured coconut fiber, It naturally absorbs and retains water while retaining its integrity and providing an ideal microclimate for the growth of vegetation.

| Property | Test Method | Typical Value | |
|---|---|---|---|
| | | English Units | Metric Units |
| Material | n/a | Woven matting of coir made from high strength coconut fiber | |
| Color | n/a | Natural / Earth tone | |
| Thickness | ASTM D 5199 | 0.35 in. | 9 mm |
| Mass per unit area min | ASTM D 5261 | 11.8 oz/sq.yd | 400 gms/sq.m |
| Wide width tensile - Dry MD X CD | ASTM D 4595 | 504 x 480 lbs/ft | 7.35 x 7.00 kN/m |
| Wide with tensile - Wet MD X CD | ASTM D 4595 | 456 x 360 lbs/ft | 6.65 x 5.25 kN/m |
| Maximum Elongation - Dry MD X CD | ASTM D 4595 | 33% x 31% | |
| Maximum Elongation - Wet MD X CD | ASTM D 4595 | 36% x 31% | |
| Flexural Rigidity (Stiffness) | ASTM D 1388 | 4070 x 3923 mg-cm | |
| Slope ( Recommended) | Observed | <1:1 | |
| Water Absorption | ASTM D 1117 | 163% | |
| Water Velocity | Flume Tests | 8 ft/sec | 2.4 m/sec |
| Shear Stress | Flume Tests | 3.2 psf | 153 N/sq.m |
| "C" Factor | Flume Tests | 0.002 | |
| Open Area | Measured | 65% | |
| Functional Longevity | Observed | 4-6 years | |
| UV Stability | ASTM D 4355 | 80% min @ 500 hrs | |

**Standard Roll Sizes: 6.56' x 165' (2m x 50m) – 120 sy/roll**

**13.1' x 165' (4m x 50m) – 240 sy/roll**

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Technical Specifications for

# Nedia KoirMat™ 700

Nedia KoirMat™ 700 is a woven fabric of high strength coir twine made from well-cleaned, fresh water cured coconut fiber, It naturally absorbs and retains water while retaining its integrity and providing an ideal microclimate for the growth of vegetation.

| Property | Test Method | Typical Value | |
|---|---|---|---|
| | | English Units | Metric Units |
| Material | n/a | Woven matting of coir made from high strength coconut fiber | |
| Color | n/a | Natural / Earth tone | |
| Thickness | ASTM D 5199 | 0.35 in. | 9 mm |
| Mass per unit area (min) | ASTM D 5261 | 20.6 oz/sq.yd | 700 gms/sq. m |
| Wide width tensile - Dry MD X CD | ASTM D 4595 | 1512 x 1032 lbs/ft | 22.06 x 15.05 kN/m |
| Wide with tensile - Wet MD X CD | ASTM D 4595 | 924 x 684 lbs/ft | 13.48 x 9.97 kN/m |
| Maximum Elongation - Dry MD X CD | ASTM D 4595 | 40% x 33% | |
| Maximum Elongation - Wet MD X CD | ASTM D 4595 | 69% x 34% | |
| Flexural Rigidity (Stiffness) | ASTM D 1388 | 12896 x 8132 mg-cm | |
| Slope ( Recommended0 | Observed | >1:1 | |
| Water Absorption | ASTM D 1117 | 146% | |
| Water Velocity | Flume Tests | 12 ft/sec | 3.7 m/sec |
| Shear Stress | Flume Tests | 4.5 psf | 215 N/sq. m |
| "C" Factor | Flume Tests | 0.002 | |
| Open Area | Measured | 50% | |
| Functional Longevity | Observed | 4-6 years | |
| UV Stability | ASTM D 4355 | 80% min @ 500 hrs | |

**Standard Roll Sizes: 6.56' x 165' (2m x 50m) – 120 sy/roll 13.1' x 83' (4m x 25m) – 120 sy/roll**

**13.1' x 165' (4m x 50m) – 240 sy/roll**

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Technical Specifications for

# Nedia KoirMat™ 900

Nedia KoirMat™ 900 is a woven fabric of high strength coir twine made from well-cleaned, fresh water cured coconut fiber, It naturally absorbs and retains water while retaining its integrity and providing an ideal microclimate for the growth of vegetation.

| Property | Test Method | Typical Value | |
|---|---|---|---|
| | | English Units | Metric Units |
| Material | n/a | Woven matting of coir made from high strength coconut fiber | |
| Color | n/a | Natural / Earth tone | |
| Thickness | ASTM D 5199 | 0.35 in. | 9 mm |
| Mass per unit area min | ASTM D 5261 | 26.5 oz/sq.yd | 900 gms/sq. m |
| Wide width tensile - Dry MD X CD | ASTM D 4595 | 1968 x 1416 lbs/ft | 27.7 x 20.6 kN/m |
| Wide width tensile - Wet MD X CD | ASTM D 4595 | 1260 x 768 lbs/ft | 18.3 x 11.2 kN/m |
| Maximum Elongation - Dry MD X CD | ASTM D 4595 | 46% x 34% | |
| Maximum Elongation - Wet MD X CD | ASTM D 4595 | 43% x 36% | |
| Flexural Rigidity (Stiffness) | ASTM D 1388 | 14019 x 9329 mg -cm | |
| Slope ( Recommended ) | Observed | >1:1 | |
| Water Absorption | ASTM D 1117 | 132% | |
| Water Velocity | Flume Tests | 16 ft/sec | 4.9 m/sec |
| Shear Stress | Flume Tests | 5.0 psf | 239 N/sq.m |
| "C" Factor | Flume Tests | 0.003 | |
| Open Area | Measured | 39% | |
| Functional Longevity | Observed | 4-6 years | |
| UV Stability | ASTM D 4355 | 80% min @ 500 hrs | |

**Standard Roll Sizes: 6.56’ x 165’ (2m x 50m) – 120 sy/roll  13.1’ x 83’ (4m x 25m) – 120 sy/roll**

**13.1’ x 165’ (4m x 50m) – 240 sy/roll**

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Technical Specifications for

# Nedia KoirMat™ 1000

Nedia KoirMat™ 1000 is a woven fabric of high strength coir twine made from well-cleaned, fresh water cured coconut fiber, It naturally absorbs and retains water while retaining its integrity and providing an ideal microclimate for the growth of vegetation.

| Property | Test Method | Typical Value | |
|---|---|---|---|
| | | English Units | Metric Units |
| Material | n/a | Woven matting of coir made from high strength coconut fiber | |
| Color | n/a | Natural / Earth tone | |
| Thickness | ASTM D 5199 | 0.35 in. | |
| Mass per unit area min | ASTM D 5261 | 30 oz/sq.yd | |
| Wide width tensile - Dry MD X CD | ASTM D 4595 | 2151 x 1545 lbs/ft | 31.3 x 22.5 kN/m |
| Wide with tensile - Wet MD X CD | ASTM D 4595 | 1810 x 1021 lbs/ft | 26.3 x 14.9 kN/m |
| Maximum Elongation - Dry MD X CD | ASTM D 4595 | 41% x 42% | |
| Maximum Elongation - Wet MD X CD | ASTM D 4595 | 45% x 31% | |
| Slope (Recommended) | Observed | > 1:1 | |
| Water Absorption | ASTM D 1117 | 137% | |
| Water Velocity | Flume Tests | 17 ft/sec | |
| Shear Stress | Flume Tests | 5.5 psf | |
| "C" Factor | Flume Tests | 0.003 | |
| Open Area | Measured | 36% | |
| Functional Longevity | Observed | 4-6 years | |
| UV Stability | ASTM D 4355 | 80% min @ 500 hrs | |

**Standard Roll Sizes: 6.56' x 165' (2m x 50m) – 120 sy/roll 13.1' x 83' (4m x 25m) – 120 sy/roll**

**13.1' x 165' (4m x 50m) – 240 sy/roll**

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