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SI® Geosolutions

# LANDLOK®

## Turf Reinforcement Mat Property Table

### English Values[1]

| PROPERTY | TEST METHOD | UNIT | VALUE[2] | TRM 435 | TRM 450 | TRM 1051 | TRM 1060 | PYRAMAT |
|---|---|---|---|---|---|---|---|---|
| PHYSICAL | | | | | | | | |
| Mass Per Unit Area | ASTMD-6566 | oz/yd$^2$ | MARV | 8.0 | 10.0 | 14.0 | 14.0 | 13.5 |
| Thickness | ASTM D-6525 | in | MARV | 0.35 | 0.50 | 0.40 | 0.60 | 0.40 |
| Light Penetration (% Passing) | ASTM D-6567 | % | MARV | 40 | 20 | 5 | 40 | 10 |
| Color | Visual | – | – | Green | Green | Tan | Green, Tan | Green, Tan |
| MECHANICAL | | | | | | | | |
| Tensile Strength | ASTM D-6818 | lb/ft | MARV | 225 x 175 | 400 x 300 | 300 x 225 | 275 x 225 | 4,000 x 3,000 |
| Tensile Elongation | ASTM D-6818 | % | Maximum | 50 | 50 | 85 | 40 | 65 |
| Resiliency | ASTM D-6524 | % | MARV | 80 | 90 | 80 | 80 | 80 |
| Flexibility | ASTM D-6575 | in-lbs | Average | 0.015 | 0.026 | 0.022 | 0.026 | 0.534 |
| DURABILITY | | | | | | | | |
| UV Resistance @ 1000 hours | ASTM D-4355 | % | MARV | 80 | 80 | 80 | 80 | 90[3] |
| PERFORMANCE | | | | | | | | |
| Shear Stress[4] | Large Scale | lb/ft$^2$ | Maximum | 5 | 8 | 8 | 8 | 12 |
| Manning's "n"[5] | Calculated | – | Typical | 0.025 | 0.025 | 0.026 | 0.026 | 0.028 |
| Seedling Emergence[6] | ECTC Draft Method #4 | % | Typical | – | 144 | – | – | 750 |

NOTES

1. The listed property values are effective 7/01/2004 and are subject to change without notice.
2. MARV indicates minimum average roll value calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the reported value.
3. Value obtained after 3000 hours.
4. Maximum permissible shear stress has been obtained through vegetated testing programs featuring specific soil types, vegetation classes, flow conditions, and failure criteria. These conditions may not be relevant to every project nor are they replicated by other manufacturers. Please contact SI Geosolutions for further information.
5. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.
6. Calculated as percent increase in average plant biomass with tall fescue grass seed in sand 14 days after seeding versus traditional round monofilament TRMs and HPTRMs.




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## Turf Reinforcement Mat Property Table

### Metric Values[1]

| PROPERTY | TEST METHOD | UNIT | VALUE[2] | TRM 435 | TRM 450 | TRM 1051 | TRM 1060 | PYRAMAT |
|---|---|---|---|---|---|---|---|---|
| PHYSICAL | | | | | | | | |
| Mass Per Unit Area | ASTMD-6566 | $g/m^2$ | MARV | 271 | 340 | 475 | 475 | 455 |
| Thickness | ASTM D-6525 | mm | MARV | 8.9 | 12.7 | 10.1 | 15.2 | 10.2 |
| Light Penetration (% Passing) | ASTM D-6567 | % | MARV | 40 | 20 | 5 | 40 | 10 |
| Color | – | – | – | Green | Green | Tan | Green, Tan | Green, Tan |
| MECHANICAL | | | | | | | | |
| Tensile Strength | ASTM D-6818 | kN/m | MARV | 3.3 x 2.6 | 5.8 x 4.3 | 4.3 x 3.2 | 4.0 x 3.3 | 58.4 x 43.8 |
| Tensile Elongation | ASTM D-6818 | % | Maximum | 50 | 50 | 85 | 40 | 65 |
| Resiliency | ASTM D-6524 | % | MARV | 80 | 90 | 80 | 80 | 80 |
| Flexibility | ASTM D-6575 | mg-cm | Average | 16,000 | 30,000 | 25,000 | 30,000 | 615,000 |
| DURABILITY | | | | | | | | |
| UV Resistance @ 1000 hours | ASTM D-4355 | % | MARV | 80 | 80 | 80 | 80 | 90[3] |
| PERFORMANCE | | | | | | | | |
| Shear Stress[4] | Large-Scale | Pa | Maximum | 240 | 383 | 383 | 383 | 574 |
| Manning's "n"[5] | Calculated | – | Typical | 0.025 | 0.025 | 0.026 | 0.026 | 0.028 |
| Seedling Emergence[6] | ECTC Draft Method #4 | % | Typical | – | 144 | – | – | 750 |

NOTES

1. The listed property values are effective 7/01/2004 and are subject to change without notice.
2. MARV indicates minimum average roll value calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the reported value.
3. Value obtained after 3000 hours.
4. Maximum permissible shear stress has been obtained through vegetated testing programs featuring specific soil types, vegetation classes, flow conditions, and failure criteria. These conditions may not be relevant to every project nor are they replicated by other manufacturers. Please contact SI Geosolutions for further information.
5. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 15 to 30 cm.
6. Calculated as percent increase in average plant biomass with tall fescue grass seed in sand 14 days after seeding versus traditional round monofilament TRMs and HPTRMs.




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