

High Density Polyethylene MicroDrain Liner®



Product Data

| Property | Test Method | Frequency | Minimum Average Values | | | |
|---|---|------------|---|------------|------------|------------|
| Thickness (nominal), mil (mm) | ASTM D5994 | Per Roll | 50 (1.25) | 60 (1.5) | 80 (2.0) | 100 (2.5) |
| Thickness (min avg), mil (mm) | | | 47.5 (1.19) | 57 (1.43) | 76 (1.9) | 95 (2.38) |
| Thickness (min 8 of 10), mil (mm) | | | 45 (1.12) | 54 (1.35) | 72 (1.8) | 90 (2.25) |
| Thickness (lowest individual), mil (mm) | | | 42.5 (1.06) | 51 (1.28) | 68 (1.7) | 85 (2.13) |
| Drainage Stud Height, mil (mm) | ASTM D7466 | 2nd Roll | 130 (3.3) | 130 (3.3) | 130 (3.3) | 130 (3.3) |
| MicroSpike® Asperity Height, mil (mm) | ASTM D7466 | 2nd Roll | 20 (0.51) | 20 (0.51) | 18 (0.46) | 18 (0.46) |
| Density, g/cc, minimum | ASTM D792, Method B | 200,000 lb | 0.94 | 0.94 | 0.94 | 0.94 |
| Tensile Properties (both directions) | ASTM D6693, Type IV 2 in/minute | 20,000 lb | | | | |
| Strength @ Yield, lb/in width (N/mm) | | | 110 (19.3) | 132 (23.1) | 176 (30.8) | 220 (38.5) |
| Elongation @ Yield, % (GL=1.3in) | | | 13 | 13 | 13 | 13 |
| Strength @ Break, lb/in width (N/mm) | | | 110 (19.3) | 132 (23.1) | 176 (30.8) | 220 (38.5) |
| Elongation @ Break, % (GL=2.0in) | | | 300 | 300 | 300 | 300 |
| Tear Resistance, lbs. (N) | ASTM D1004 | 45,000 lb | 38 (169) | 42 (187) | 56 (249) | 70 (310) |
| Puncture Resistance, lbs. (N) | ASTM D4833 | 45,000 lb | 80 (356) | 95 (422) | 126 (560) | 158 (703) |
| Carbon Black Content, % (range) | ASTM D4218 | 20,000 lb | 2 - 3 | 2 - 3 | 2 - 3 | 2 - 3 |
| Carbon Black Dispersion (Category) | ASTM D5596 | 45,000 lb | Only near spherical agglomerates: 10 views in Cat. 1 or 2 | | | |
| Stress Crack Resistance (SP-NCTL), hrs. | ASTM D5397 Appendix | 200,000 lb | 500 | 500 | 500 | 500 |
| Oxidative Induction Time, minutes | ASTM D3895, 200°C, 1 atm O ₂ | 200,000 lb | ≥140 | ≥140 | ≥140 | ≥140 |

Agru America's geomembranes are certified to pass Low Temp. Brittleness via ASTM D746 (-80°C), Dimensional Stability via ASTM D1204 (±2% @ 100°C).

Open Aging and UV Resistance are tested per GRI GM 13. These product specifications meet or exceed GRI's GM13.

Supply Information (Standard Roll Dimensions)

| Thickness | | Width | | Length | | Area (approx.) | |
|-----------|------|-------|---|--------|------|-----------------|----------------|
| mil | mm | ft | m | ft | m | ft ² | m ² |
| 50 | 1.25 | 23 | 7 | 300 | 91.4 | 6,900 | 640 |
| 60 | 1.5 | 23 | 7 | 300 | 91.4 | 6,900 | 640 |
| 80 | 2.0 | 23 | 7 | 300 | 91.4 | 6,900 | 640 |
| 100 | 2.5 | 23 | 7 | 300 | 91.4 | 6,900 | 640 |

Note:

Average roll weight is 4,000 lbs (1,814 kg) for 100 mil and 3,000 lbs (1,300 kg) for other thicknesses. All rolls are supplied with two slings. Rolls are wound on a 6" core. Special length available upon request. Roll length and width have a tolerance of ±1%. The weight values may change due to project specifications (i.e. absolute minimum thickness or special length) or shipping requirements (i.e. international containerized shipments).

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