

Linear Low Density Polyethylene MicroSpike[®] Liner



Product Data

| Property | Test Method | Frequency | Minimum Average Values | | | |
|---|---|------------|---|------------|------------|-----------|
| Thickness (nominal), mil (mm) | ASTM D5994 | Per Roll | 40 (1.0) | 60 (1.5) | 80 (2.0) | 100 (2.5) |
| Thickness (min avg), mil (mm) | | | 38 (0.95) | 57 (1.43) | 76 (1.9) | 95 (2.38) |
| Thickness (min 8 of 10), mil (mm) | | | 36 (0.90) | 54 (1.35) | 72 (1.8) | 90 (2.25) |
| Thickness (lowest individual), mil (mm) | | | 34 (0.85) | 51 (1.28) | 68 (1.7) | 85 (2.13) |
| Asperity Height, mil (mm) | ASTM D7466 | 2nd Roll | 20 (0.51) | 20 (0.51) | 18 (0.46) | 18 (0.46) |
| Density, g/cc, maximum | ASTM D792, Method B | 200,000 lb | 0.939 | 0.939 | 0.939 | 0.939 |
| Tensile Properties (both directions) | ASTM D6693, Type IV | 20,000 lb | 112 (19.6) | 168 (29.4) | 224 (39.2) | 280 (49) |
| Strength @ Break, lb/in width (N/mm) | 2 in/minute | | | | | |
| Elongation @ Break, % (GL=2.0in) | | | | | | |
| Tear Resistance, lbs. (N) | ASTM D1004 | 45,000 lb | 25 (111) | 36 (160) | 50 (222) | 60 (267) |
| Puncture Resistance, lbs. (N) | ASTM D4833 | 45,000 lb | 50 (222) | 70 (310) | 90 (400) | 115 (512) |
| 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 Cat.1 or 2 | | | |
| 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).
Oven Aging and UV Resistance are tested per GRI GM 17. These product specifications meet or exceed GRI's GM17.

Supply Information (Standard Roll Dimensions)

| Thickness | | Width | | Length | | Area (approx.) | | |
|-----------|------|-------|---|--------------|------|-----------------|----------------|-------|
| mil | mm | ft | m | ft | m | ft ² | m ² | |
| 30 | 0.75 | 23 | 7 | Double-Sided | 980 | 299 | 22,540 | 2,094 |
| | | | | Single-Sided | 1000 | 305 | 23,000 | 2,137 |
| 40 | 1.0 | 23 | 7 | Double-Sided | 750 | 229 | 17,250 | 1,603 |
| | | | | Single-Sided | 790 | 241 | 18,170 | 1,688 |
| 60 | 1.5 | 23 | 7 | Double-Sided | 540 | 165 | 12,420 | 1,154 |
| | | | | Single-Sided | 550 | 168 | 12,650 | 1,175 |
| 80 | 2.0 | 23 | 7 | Double-Sided | 410 | 125 | 9,430 | 876 |
| | | | | Single-Sided | 420 | 128 | 9,660 | 897 |
| 100 | 2.5 | 23 | 7 | Double-Sided | 335 | 102 | 7,705 | 716 |
| | | | | Single-Sided | 340 | 104 | 7,820 | 726 |

Note:

Average roll weight is 3,900 lbs (1,770 kg). 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. average or absolute minimum thickness) or shipping requirements (i.e. international containerized shipments).

All information, recommendations and suggestions appearing in this literature concerning the use of our products are based upon tests and data believed to be reliable; however, it is the users responsibility to determine the suitability for their own use of the products described herein. Since the actual use by others is beyond our control, no guarantee or warranty of any kind, expressed or implied, is made by Agru America as to the effects of such use or the results to be obtained, nor does Agru America assume any liability in connection herewith. Any statement made herein may not be absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Nothing herein is to be construed as permission or as a recommendation to infringe any patent.