

PRODUCT SPECIFICATION SHEET

40mil HDPE

General Description: A double scrim, heavyweight geomembrane fabric incorporating a special weave pattern to enhance thickness, flatness, and tear properties. The coating recipe is designed to improve toughness and abrasion resistance.

BASE FABRIC

Weave: 2 woven black HDPE scrims
Weight: 18.5 oz psy

TEST METHOD

COATED FABRIC

Coating: 2.5 mil / both sides / LDPE
Thickness: 40 mil
Standard Width: 120"
Standard Color: White, black or other colors are available

ASTM D1777

MECHANICAL PROPERTIES

| | | |
|---------------------------------|---|------------------------|
| Grab Tensile: | warp 680/ weft 650 | ASTM D7004 |
| Strip Tensile (lbs/in): | warp 460 / weft 450 | ASTM D7003 |
| Tongue Tear: | warp 150 / weft 155 | ASTM D5884 |
| Burst: | 1250 psi | ASTM D751 |
| MVTR: | 0.31 g/m ² | ASTM E96 |
| Hydraulic Conductivity: | 2.65 x 10 ⁻¹² cm/s | |
| Hydrostatic Resistances: | 685 psi | ASTM D751 |
| Puncture Resistance: | 347 psi | ASTM D4833 |
| Carbon Black Content: | 3.0% | ASTM D4281 |
| Carbon Black Dispersion: | Category 1 | ASTM D5596 |
| Dimensional Stability: | Warp -3.8% / Weft -1.8% | ASTM D1204 |
| Low Temperature Flex: | Pass @ -65 degrees C | ASTM D2136 |
| Seam Strength (Shear): | >80% of the strip tensile value in direction | ASTM D7747 |
| Seam Strength (Peel): | 4 lbs/in | ASTM D413 |
| Weatherability: | >90% strength retention after 2000 hours exposure @ 0.77 W/m ² /nm, or 1200 hours exposure @ 1.35 W/m ² /nm, 1 Q.U.V. (A-340 Lamps); 8 hrs UV @ 60 degrees C; 4 hrs condensation @ 50 degrees C | ASTM G151 ASTM G154 |