

RPE-45OR

45mil ENVIRONMENTAL GEOMEMBRANE LINER



RPE-45OR is an excellent choice whether you are lining an irrigation pond, an industrial pond, water features in a common area, or a golf course water hazard. It is designed as a fish and plant safe liner also. RPE-36OR environmental geomembrane is an HDPE/LDPE fabric designed for economical, safe containment of contaminated soils, liquids, or sludges. It is a perfect choice for the storage of remediation/treatment of contaminated materials, fuels, chemicals, and water. Being a polyethylene product, it has hydrocarbon, chemical, and U.V. resistance. Its cold crack characteristics are excellent at -65°F (-54°C).

Double Scrim HDPE with LDPE Coating

(Low Temperature – Hydrocarbon Stable)

BLACK/WHITE, 16 x 16 COUNT PER INCH

| TESTED PROPERTY | TEST METHOD | | UNIT ENGLISH | VALUE ENGLISH |
|--------------------------------|-------------|------|---|--------------------------|
| Weight | | | oz/yd ² | 22.5 (±5%) |
| Thickness | ASTM D 1777 | | mil | 45 (±10%) |
| Coating Thickness | | | mil each | 5.0 (±10%) |
| Tensile Strength (Grab Method) | ASTM D 7004 | Warp | lbs | 635 |
| | | Weft | lbs | 605 |
| (Strip Method) | ASTMD 7003 | Warp | lbs | 385 |
| | | Weft | lbs | 360 |
| Elongation at Break | | Warp | % | 26 |
| Tear Strength (Tongue Method) | ASTM D 5884 | Warp | lbs/in | 100 |
| | | Weft | lbs/in | 100 |
| Bursting Strength (Mullen) | ASTM D 751 | | PSI | 1250 |
| Hydrostatic Resistance | ASTM D 751 | | PSI | 880 |
| Puncture Resistance | ASTM D 4833 | | lbs | 380 |
| Low Temperature Cold Crack | ASTM D 2136 | | °F | -40 |
| Carbon Black Content | | | % | 4.47 |
| Carbon Black Dispersion | | | | Category 1 |
| Permeability | | | cm/sec | 2.32 x 10 ⁻¹² |
| Seam Strength (Shear), min | ASTM D 7747 | | > 80% of the strip tensile value in the direction perp. To the seam | |
| Seam Strength (peel), min | ASTM D 413 | | lbs/in | 4 |
| UV Resistance | ASTM G-154 | | % strength retained after 2000 hrs | >90 |

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