

# TITAN EPDM - 45

## 45mil ECO GEOMEMBRANE LINER



Ethylene Propylene Diene Monomer 45mil

| TESTED PROPERTY                                                                                                                                                                  | TEST METHOD                 | UNIT<br>ENGLISH (METRIC)                  | VALUE<br>ENGLISH (METRIC) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------|---------------------------|
| Color                                                                                                                                                                            |                             |                                           | Black                     |
| Thickness, nominal $\pm 10\%$                                                                                                                                                    | ASTM D 5199                 | mil (mm)                                  | 45 (1.14)                 |
| <b>TENSILE PROPERTIES</b>                                                                                                                                                        |                             |                                           |                           |
| Break Strength                                                                                                                                                                   | ASTM D 882                  | lb/in (kN/m)                              | 50 (9)                    |
| Break Elongation                                                                                                                                                                 | ASTM D 882                  | %                                         | 500                       |
| Tear Resistance lbf/in (kN/m)                                                                                                                                                    | ASTM D 1004                 | lbs (N)                                   | 9 (40)                    |
| Puncture Resistance                                                                                                                                                              | ASTM D 4883                 | lbs (N)                                   | 35 (150)                  |
| Brittleness Temperature                                                                                                                                                          | ASTM D 746                  | $^{\circ}\text{F}$ ( $^{\circ}\text{C}$ ) | -49 (-45)                 |
| Water Vapor Permeance Max. perms                                                                                                                                                 | ASTM E 96<br>(Proc B or W)  |                                           | 2.0                       |
| Resistance to Water Absorption %<br>change in mass max. after 7 days<br>immersion @ 170 $^{\circ}\text{F}$ (65 $^{\circ}\text{C}$ )                                              | ASTM D 471                  |                                           | +8.0<br>-2.0              |
| Resistance to Heat Aging (Properties<br>after 170 hrs @ 212 $^{\circ}\text{F}$ (100 $^{\circ}\text{C}$ )<br>1. Tensile Break Strength<br>2. Elongation, ultimate min.            | ASTM D 882                  | %                                         | 90<br>75                  |
| Multiaxial Elongation                                                                                                                                                            | ASTM D 5617                 | %                                         | 100                       |
| Dimensional Stability                                                                                                                                                            | ASTM D 1204                 | %                                         | 0.75                      |
| Ozone Resistance<br>Condition after exposure to 100pphm<br>ozone in air for 168 hrs @ 140 $^{\circ}\text{F}$ (40 $^{\circ}\text{C}$ )<br>(Sample under 50% strain)               | ASTM D 1149                 |                                           | No Cracks                 |
| Resistance to outdoor (Ultraviolet)<br>Weathering, Xenon-Arc, 4000 hr<br>exposure @ 70 $^{\circ}\text{F}$ (176 $^{\circ}\text{F}$ ) Black panel<br>temperature, visual condition | ASTM G 26                   |                                           | No Cracks                 |
| Toxicity to Fish                                                                                                                                                                 | ASTM E 729 (96)<br>Modified |                                           | Passes                    |
| Shore A Durometer                                                                                                                                                                | ASTM D 2240                 |                                           | 65 $\pm$ 10               |

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### TITAN ENVIRONMENTAL CONTAINMENT

Toll Free: 1-866-327-1957 | Email: [info@titanenviro.com](mailto:info@titanenviro.com) | Web: [www.titanenviro.com](http://www.titanenviro.com)

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