

## PRODUCT DESCRIPTION

DURA♦SKRIM® RB20BBV incorporates high-strength reinforcement with the latest in EVOH barrier technology designed to provide an effective barrier to odor and gases. RB20BBV is manufactured with an outer ply consisting of seven-layers including an integrated core of a high performance polymer with enhanced barrier properties. This limits migration of volatile organic compounds including methane, halogenated hydrocarbons, aromatic hydrocarbons and odors. The barrier layer is more effective than standard polyethylene in gas and odor control, while providing the same great strength and toughness expected from patented DURA♦SKRIM® fiber-reinforced membranes. Diagonal scrim reinforcement is placed between these plies to provide optimal tear resistance and increased service life.

DURA♦SKRIM® RB20BBV is manufactured in large prefabricated panels to provide maximum coverage and reduce site installation time and cost (fabricated panels available up to 8,000 lbs).

## PRODUCT USE

DURA♦SKRIM® RB20BBV is designed for use in interim and temporary landfill rainsheds covers to control leachate, methane and odors. RB20BBV is also recommended for applications that demand high puncture resistance, excellent barrier properties, and exceptional outdoor life. DURA♦SKRIM® RB20BBV is manufactured from very chemical-resistant, virgin polymers.

## SIZE & PACKAGING

DURA♦SKRIM® RB20BBV is available in a variety of widths and lengths in large prefabricated panels up to 8,000 lbs. All panels are accordion folded and tightly rolled on a heavy-duty core for ease of handling and time-saving installation. DURA♦SKRIM® RB20BBV is also available in custom thicknesses ranging from 6 to 20 mil with minimum purchase requirements.

# DURA♦SKRIM®



Landfill Odor Control Barrier Cover

## PRODUCT

## PART #

DURA♦SKRIM..... RB20BBV

## APPLICATIONS

|                       |                             |
|-----------------------|-----------------------------|
| Landfill Odor Control | Earthen Barrier Liners      |
| Modular Tank Liners   | Interim Landfill Caps       |
| Brownfield Liners     | Remediation liners & Covers |
| Remediation Liners    | Erosion Control Covers      |

# DURA♦SKRIM® RB20BBV

SCRIM REINFORCED POLYETHYLENE GAS BARRIER

## PRO-FORMA DATA SHEET - TYPICAL PROPERTIES

| PRO-FORMA DATA SHEET - TYPICAL PROPERTIES |                        | DURA♦SKRIM® RB20BBV                                                          |            |                                   |                      |
|-------------------------------------------|------------------------|------------------------------------------------------------------------------|------------|-----------------------------------|----------------------|
|                                           |                        | IMPERIAL                                                                     |            | METRIC                            |                      |
| PROPERTIES                                | TEST METHOD            | MINIMUM                                                                      | TYPICAL    | MINIMUM                           | TYPICAL              |
| Appearance                                |                        | Black/Black                                                                  |            |                                   |                      |
| <sup>1</sup> Thickness, Average           | ASTM D5199 Procedure A | 20 mil                                                                       | 22 mil     | 0.51 mm                           | 0.56 mm              |
| Weight                                    | ASTM D751              | 70 lbs/MSF                                                                   | 74 lbs/MSF | 341 g/m <sup>2</sup>              | 361 g/m <sup>2</sup> |
| Construction                              |                        | Extrusion laminated with scrim reinforcement                                 |            |                                   |                      |
| <sup>2</sup> Grab Tensile Strength        | ASTM D7004             | 82.4 lbs                                                                     | 115 lbs    | 366 N                             | 512 N                |
| <sup>2</sup> Grab Tensile Elongation      | ASTM D7004             | 15 %                                                                         | 17 %       | 15 %                              | 17 %                 |
| <sup>3</sup> Tongue Tear                  | ASTM D5884             | 45 lbs                                                                       | 48 lbs     | 200 N                             | 213 N                |
| CBR Puncture Resistance                   | ASTM D6241             | 320 lbs                                                                      | 359 lbs    | 1422 N                            | 1596 N               |
| Mullen Burst                              | ASTM D751              | 150 psi                                                                      | 176 psi    | 1034 kPa                          | 1213 kPa             |
| High Pressure OIT                         | ASTM D5885             | 1000 min                                                                     | 3100 min   | 1000 min                          | 3100 min             |
| WVTR                                      | ASTM E96               | 0.009 grains/ft <sup>2</sup> •hr                                             |            | 0.151 grains/m <sup>2</sup> •day  |                      |
| Perm Rating                               | ASTM E96               | 0.023 Perms                                                                  |            | 0.015 g/m <sup>2</sup> •day•mm Hg |                      |
| Hydraulic Conductivity                    | ASTM E96               | 1.77 x 10 <sup>-10</sup> cm/sec                                              |            |                                   |                      |
| Benzene Permeance                         | See Note <sup>6</sup>  | 6.80 x 10 <sup>-11</sup> m <sup>2</sup> /sec or 6.03 x 10 <sup>-13</sup> m/s |            |                                   |                      |
| Toluene Permeance                         | See Note <sup>6</sup>  | 9.45 x 10 <sup>-11</sup> m <sup>2</sup> /sec or 2.43 x 10 <sup>-13</sup> m/s |            |                                   |                      |
| Ethylbenzene Permeance                    | See Note <sup>6</sup>  | 7.41 x 10 <sup>-11</sup> m <sup>2</sup> /sec or 5.57 x 10 <sup>-14</sup> m/s |            |                                   |                      |
| M & P-Xylenes Permeance                   | See Note <sup>6</sup>  | 6.99 x 10 <sup>-11</sup> m <sup>2</sup> /sec or 6.35 x 10 <sup>-14</sup> m/s |            |                                   |                      |
| O-Xylene Permeance                        | See Note <sup>6</sup>  | 6.61 x 10 <sup>-11</sup> m <sup>2</sup> /sec or 5.71 x 10 <sup>-14</sup> m/s |            |                                   |                      |
| Trichloroethylene (TCE)                   | See Note <sup>6</sup>  | 4.60 x 10 <sup>-11</sup> m <sup>2</sup> /sec or 1.75 x 10 <sup>-14</sup> m/s |            |                                   |                      |
| Perchloroethylene (PCE)                   | See Note <sup>6</sup>  | 4.33 x 10 <sup>-11</sup> m <sup>2</sup> /sec or 1.74 x 10 <sup>-14</sup> m/s |            |                                   |                      |
| Maximum Static Use Temperature            |                        | 180° F                                                                       |            | 82° C                             |                      |
| Minimum Static Use Temperature            |                        | -70° F                                                                       |            | -57° C                            |                      |

<sup>1</sup> Thickness measured over top of scrim.

<sup>2</sup> Tests are an average of primary reinforcement directions.

<sup>3</sup> Tests are an average of machine and transverse directions.

<sup>6</sup> Aqueous Phase Film Permeance.

Permeation of Volatile Organic Compounds through EVOH Thin Film Membranes and Coextruded LLDPE/EVOH/LLDPE Geomembranes, McWaters and Rowe, Journal of Geotechnical and Geoenvironmental Engineering © ASCE/September 2015. (Permeation is the Permeation Coefficient adjusted to actual film thickness - calculated at 1 kg/m<sup>2</sup>) The study used to determine PCE and TCE is titled: Evaluation of diffusion of PCE & TCE through high performance geomembranes by Di Battista and Rowe, Queens University 8 Feb 2018.

**PRO-FORMA SHEET CONTENTS:** The data listed in the Pro-Forma data sheet is representative of initial production runs. These values may be revised at anytime without notice as additional test data becomes available.

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Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. VIAFLEX MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. Limited Warranty available at [www.viaflex.com](http://www.viaflex.com)

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27-0008 08/24