

PRODUCT DESCRIPTION

GEO◆SKRIM® RB20BBV incorporates high-strength reinforcement with the latest in 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 GEO◆SKRIM® fiber-reinforced membranes. Diagonal scrim reinforcement is placed between these plies to provide optimal tear resistance and increased service life.

GEO◆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

GEO◆SKRIM® RB20BBV is designed for use in interim and temporary landfill rainshed 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. GEO◆SKRIM® RB20BBV is manufactured from very chemical-resistant, virgin polymers.

SIZE & PACKAGING

GEO◆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. GEO◆SKRIM® RB20BBV is also available in custom thicknesses ranging from 6 to 20 mil with minimum purchase requirements.



Landfill Odor Control Barrier Cover

PRODUCT

PART

GEO◆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 |

PRO-FORMA DATA SHEET - TYPICAL PROPERTIES

| | | GEO◆SKRIM® RB20BBV | |
|--|-----------------------|--|----------------------|
| PROPERTIES | TEST METHOD | IMPERIAL | METRIC |
| APPEARANCE | | Black/Black | |
| THICKNESS, NOMINAL | ASTM D5199 | 20 mil | 0.51 mm |
| WEIGHT | ASTM D751 | 74 lbs/MSF 10.7 oz./yd ² | 361 g/m ² |
| CONSTRUCTION | | Extrusion laminated with scrim reinforcement | |
| ² TENSILE STRENGTH AT SCRIM BREAK | ASTM D7003 | 80 lbf/in | 140 N/cm |
| ² TENSILE ELONGATION AT FILM BREAK | ASTM D7003 | 550 % | 550 % |
| ² TENSILE ELONGATION AT SCRIM BREAK | ASTM D7003 | 20 % | 20 % |
| ² GRAB TENSILE | ASTM D7004 | 120 lbf | 534 N |
| PUNCTURE RESISTANCE, (CBR) | ASTM D6241 | 300 lbf | 1334 N |
| ¹ TRAPEZOID TEAR | ASTM D4533 | 70 lbf | 311 N |
| MULLEN BURST | ASTM D751 | 120 psi | 827 kPa |
| HIGH PRESSURE OIT (HPOIT) | ASTM D5885 | > 1400 min | |
| BENZENE PERMEANCE | See Note ⁶ | 3.44E-08 m/s | |
| TOLUENE PERMEANCE | See Note ⁶ | 5.08E-08 m/s | |
| ETHYLBENZENE PERMEANCE | See Note ⁶ | 7.82E-08 m/s | |
| M & P-XYLENES PERMEANCE | See Note ⁶ | 8.28E-08 m/s | |
| O-XYLENE PERMEANCE | See Note ⁶ | 7.50E-08 m/s | |
| MAXIMUM STATIC USE TEMPERATURE | | 180° F | 82° C |
| MINIMUM STATIC USE TEMPERATURE | | -70° F | -57° C |

¹ Tests are an average of diagonal directions.

² Tests are an average of primary reinforcement directions.

⁶ Aqueous Phase Film Permeance.

Diffusive Transport of VOCs through LLDPE and Two Coextruded Geomembranes, McWatters and Rowe, Journal of Geotechnical and Geoenvironmental Engineering © ASCE/September 2010. (Permeation is the Permeation Coefficient adjusted to actual film thickness)

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. GEOCHEM, INC. 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.

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