

PRODUCT DESCRIPTION

GeoFlex™ VF30B membrane consists of prime very-low-density black polyethylene (VLDPE) to provide extremely high elongation, tear resistance, and bursting strength. GeoFlex™ VF30B will remain flexible and conforming for challenging angles and terrains without stress cracking problems as often seen with high-density membranes. A minimum fine carbon black content of 2.0% provides excellent protection from UV rays and harsh weather conditions. Manufactured from virgin resins, GeoFlex™ VF30B does not contain plasticizers, which can migrate to the surface, causing premature aging.

PRODUCT USE

GeoFlex™ VF30B is used in applications requiring high flexibility, elongation, and impact strengths. VF30B conforms easily to uneven or irregular surface terrains along with the excellent sealing characteristics of polyethylene. Although, there is no current GRI standard specification for VLDPE geomembranes, GeoFlex™ VF30B does meet the GRI-GM17 Standard Specification for Linear-Low Density Polyethylene (LLDPE) in comparison.

SIZE & PACKAGING

GeoFlex™ VF30B is available in large, pre-fabricated panels up to 40,000 sq.ft. All panels are accordion folded and tightly rolled onto a heavy duty core for ease of handling and time saving installation.



Water Fountain Feature Pond

PRODUCT

PART #

GeoFlex™..... VF30B

APPLICATIONS

- Canal Linings
- Decorative Ponds
- Landfill Caps
- Waste Ponds
- Golf Course Water Traps
- Brine Ponds
- Aquaculture
- Evaporation Ponds
- Mine Tailing Ponds
- Fire Ponds
- Remediation Liners
- Farm Ponds
- Fish Hatcheries

PRO-FORMA DATA SHEET

GEOFLEX™ VF30B

PROPERTIES	TEST METHOD	IMPERIAL	METRIC
THICKNESS	ASTM D5199	30 mil	0.75 mm
DENSITY	ASTM D792 / ASTM D1505	0.914 g/cm ³	
WEIGHT, NOMINAL	ASTM D0751	145 lbs/MSF 20.9 oz/yd ²	707 g/m ²
² TENSILE STRENGTH	ASTM D6693 1. Tensile Strength at Break 2. Elongation at Break	113.8 lbf/in width 932 %	20 N/mm width 932 %
² TEAR RESISTANCE	ASTM D1004	13.6 lbf	60 N
PUNCTURE RESISTANCE	ASTM D4833	47.6 lbf	211.7 N
CARBON BLACK %	ASTM D4218	> 2.0 %	
CARBON BLACK DISPERSION	ASTM D5596	Pass ⁷ (GRI GM17)	
OXIDATIVE INDUCTION TIME (OIT) or HIGH PRESSURE OIT	ASTM D3895 ASTM D5885	200 minutes 2200 minutes	
OVEN AGING AT 85° C (90 Days)	ASTM D5721/D5885	Pass (GRI-GM17)	
UV RESISTANCE (1600 Hours)	ASTM D7238	Pass (GRI GM17)	
LOW TEMP BRITTLENESS	ASTM D746	- 70° F	< - 57° C
DIMENSIONAL STABILITY CHANGE	ASTM D1204	- 0.63 %	
MULTIAXIAL TENSION ELONGATION	ASTM D5617	> 400 %	
2 % SECANT MODULUS	ASTM D5323	8319 psi	57 N/mm ²
PERMS	ASTM E96	0.03 grains/ft ² /hr/in Hg	0.02 grams/m ² /day/mm Hg
MAXIMUM STATIC USE TEMPERATURE		180° F	82° C
MINIMUM STATIC USE TEMPERATURE		-70° F	-57° C
FACTORY SEAM REQUIREMENTS			
BONDED SEAM STRENGTH	ASTM D6392 ⁵	40 lbf/in min	N/cm
SEAM PEEL ADHESION	ASTM D6392 ⁵	21 lbf/in min	N/cm

² Tests are an average of primary reinforcement directions.

⁵ Seam testing performed at 20" per minute.

⁷ Carbon black dispersion (only near spherical agglomerates) for 10 different views: 9 in Categories 1 or 2 and 1 in Category 3

PRO-FORMA Sheet Contents:

The data listed in this 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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