

GEOFLEX™

GEOH20B, GEOH30B & GEOH40B

Linear Black Polyethylene

Product Description

GeoFlex™ GEOH20B, GEOH30B and GEOH40B are coextruded geomembranes consisting of outer layers of virgin linear-low density polyethylene and an inner core of virgin and select reprocessed resins. GeoFlex™ H-Series membranes are stabilized with carbon black and antioxidants designed for an economical solution for near to midterm applications. The premium quality LLDPE contained in the H-Series product line offers exceptional value including ease of welding along with high impact and tear resistance.

Product Use

GeoFlex™ GEOH20B, GEOH30B and GEOH40B are used in applications requiring an economical geomembrane with excellent durability including high impact strength and tear resistance. GeoFlex™ GEOH20B, GEOH30B and GEOH40B have excellent flexibility and will conform to a variety of irregular surfaces. GeoFlex™ H-Series geomembranes are commonly used in a variety of remediation and lining applications and general covers, where high performance is required and general specifications may exist.

Size & Packaging

GeoFlex™ GEOH20B is available in up to 75,000 square foot panels and GeoFlex™ GEOH30B in up to 50,000 square foot panels. GeoFlex™ GEOH40B is available in up to 38,000 square foot panels. Pre-fabricated, stepped panels are produced in our quality controlled factory environment; all panels are accordion folded and tightly rolled onto a heavy duty core for ease of handling and time saving installation.



Reservoir Liner

| Product | Part # |
|---------------|--------|
| GEOFLEX™..... | H20B |
| GEOFLEX™..... | H30B |
| GEOFLEX™..... | H40B |

APPLICATIONS

- Interim Landfill Covers
- Canal Linings
- Decorative Ponds
- Outdoor Coverings
- Brine Ponds
- Fire Ponds
- Remediation Liners
- Farm Ponds
- Oil Field Pit Liners



| PROPERTIES | TEST METHOD | GEOFLEX™ GEOH20B | | GEOFLEX™ GEOH30B | | GEOFLEX™ GEOH40B | |
|---|----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|
| | | Imperial | Metric | Imperial | Metric | Imperial | Metric |
| APPEARANCE | | Black | | Black | | Black | |
| THICKNESS, NOMINAL | | 20 mil | 0.51 mm | 30 mil | 0.75 mm | 40 mil | 1.00 mm |
| WEIGHT | | 88 lbs/MSF | 429 g/m ² | 142 lbs/MSF | 693 g/m ² | 188 lbs/MSF | 917 g/m ² |
| *1" TENSILE STRENGTH | ASTM D6693 | 122 lbf/in | 213 N/cm | 151 lbf/in | 264 N/cm | 192 lbf/in | 336 N/cm |
| *ELONGATION AT FILM BREAK | ASTM D6693 | 800 % | 800 % | 800 % | 800 % | 800 % | 800 % |
| *TEAR RESISTANCE | ASTM D1004 | 14 lbf | 62 N | 15 lbf | 66 N | 20 lbf | 89 N |
| MULLEN BURST | ASTM D751 | 110 psi | 758 kPa | 130 psi | 917 kPa | 185 psi | 1275 kPa |
| PUNCTURE RESISTANCE | ASTM D4833 | 48 lbf | 214 N | 53 lbf | 236 N | 67 lbf | 298 N |
| VOLATILE LOSS | ASTM D1203 | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % |
| DIMENSIONAL STABILITY | ASTM D1204 | < 2 % | < 2 % | < 2 % | < 2 % | < 2 % | < 2 % |
| 2% SECANT MODULUS | ASTM D5323 | 32,610 psi | 225 N/mm ² | 25,280 psi | 174 N/mm ² | 26,553 psi | 183 N/mm ² |
| PERMEANCE grains/(ft ² -hr-in Hg) (g/(24hr-m ² -mm Hg)) | ASTM E96 Method A | 0.041 Perms | (0.027) Perms | 0.031 Perms | (0.020) Perms | 0.024 Perms | (0.015) Perms |
| MAXIMUM STATIC USE TEMPERATURE | | 180°F | 82°C | 180°F | 82°C | 180°F | 82°C |
| MINIMUM STATIC USE TEMPERATURE | | -70°F | -57°C | -70°F | -57°C | -70°F | -57°C |
| FACTORY SEAM REQUIREMENTS | | | | | | | |
| BONDED SEAM STRENGTH | **ASTM D6392 | 48 lbf/in | 84 N/cm | 73 lbf/in | 128 N/cm | 82 lbf/in | 144 N/cm |
| SEAM PEEL ADHESION | **ASTM D6392 | 47 lbf/in | 82 N/cm | 51 lbf/in | 89 N/cm | 95 lbf/in | 166 N/cm |

*Tests are an average of MD and TD directions.

**Seam testing at 12" per minute.

Hydraulic conductivity values are derived from permeability data. H20 = 3.30 x 10⁻¹⁰ cm/sec, H30 = 2.49 x 10⁻¹⁰ cm/sec, and H40 = 1.93 x 10⁻¹⁰ cm/sec.

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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.

