HYDRAFLEX™ H40B

LINEAR BLACK POLYETHYLENE

RAVEN

PRODUCT DESCRIPTION

HydraFlex™ H40B is a coextruded geomembrane consisting of outer layers of virgin linear-low density polyethylene and an inner core of virgin and select reprocessed resins. HydraFlex™ 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

HydraFlex™ H40B is used in applications requiring an economical geomembrane with excellent durability including high impact strength and tear resistance. HydraFlex™ H40B has excellent flexibility and will conform to a variety of irregular surfaces. HydraFlex™ 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

HydraFlex™ H40B 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.

HydraFlex™ CONTAINMENT SOLUTIONS

Reservoir Liner

PRODUCT	PART #
HYDRA FLEX™	H40B

APPLICATIONS

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

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HYDRAFLEX™ H40B

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		HYDRA FLEX™ H40B			
		IMPERIAL		METRIC	
PROPERTIES	TEST METHOD	MINIMUM	TYPICAL	MINIMUM	TYPICAL
Appearance		Black		Black	
Thickness, Average	ASTM D5199	36 Mils	38 Mil	0.91 mm	0.97 mm
Weight		186.6 lbs/msf		911 g/m^2	
Tensile Strength at Break	ASTM D6693	136 ppi	192 ppi	238 N/cm	336 N/cm
Tensile Elongation at Break	ASTM D6693	700 %	900 %	700 %	900 %
Tear Resistance	ASTM D1004	20 lbs	24 lbs	89 N	107 N
Puncture Resistance	ASTM D4833	48 lbs	80 lbs	214 N	356 N
Oxidation Induction Time (OIT)	ASTM D3895	50 min	100 min	50 min	100 min
Carbon Black	ASTM D4218	1.6 %	2.4 %	1.6 %	2.4 %
2% Secant Modulus (maximum)	ASTM D5323	60,000 psi Maximum	30,000 psi	414 Mpa Maximum	207 Mpa
Hydraulic Conductivity		1.9 x 10^{-10} cm/sec			
Maximum Static Use Temperature		180° F		82° C	
Minimum Static Use Temperature		-70° F		-57° C	
FACTORY SEAM REQUIREMENTS					
Bonded Seam Strength	ASTM D6392	60 lbf/in width	87 lbf/in width	267 N/cm width	387 N/cm width
Seam Peel Adhesion	ASTM D6392	50 lbf/in width	70 lbf/in width	222 N/cm width	311 N/cm width

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Scan QR Code to download technical data sheets.

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. RAVEN INDUSTRIES 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.ravenefd.com

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