

HYDRAFLEX™ H20B, H30B, H40B

LINEAR BLACK POLYETHYLENE



PRODUCT DESCRIPTION

HydraFlex™ H20B, H30B and H40B are coextruded geomembranes 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™ H20B, H30B and H40B are used in applications requiring an economical geomembrane with excellent durability including high impact strength and tear resistance. HydraFlex™ H20B, H30B and H40B have 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™ H20B is available in up to 75,000 square foot panels and HydraFlex™ H30B in up to 50,000 square foot panels. 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.



Reservoir Liner

PRODUCT

PART

HYDRA FLEX™	H20B
HYDRA FLEX™	H30B
HYDRA FLEX™	H40B

APPLICATIONS

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

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PROPERTIES	TEST METHOD	HYDRA FLEX™ H20B		HYDRA FLEX™ H30B		HYDRA FLEX™ H40B	
		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	95 lbf/in	166 N/cm
SEAM PEEL ADHESION	**ASTM D6392	47 lbf/in	82 N/cm	51 lbf/in	89 N/cm	82 lbf/in	144 N/cm

*Tests are an average of MD and TD directions.

**Raven Industries performs 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. 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