

HYDRAFLEX™ H20B, H30B, H40B

DX2 GEOSYNTEX, INC.

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	HYDRAFLEX™ H20B		HYDRAFLEX™ H30B		HYDRAFLEX™ 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 = 3.30×10^{-10} cm/sec, H30 = 2.49×10^{-10} cm/sec, and H40 = 1.93×10^{-10} cm/sec.



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