

PRODUCT DESCRIPTION

HydraFlex™ V30B membrane consists of prime very-low-density black polyethylene (VLDPE) to provide extremely high elongation, tear resistance, and bursting strength. HydraFlex™ V30B 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, HydraFlex™ V30B does not contain plasticizers, which can migrate to the surface, causing premature aging.

PRODUCT USE

HydraFlex™ V30B is used in applications requiring high flexibility, elongation, and impact strengths. V30B conforms easily to uneven or irregular surface terrain along with the excellent sealing characteristics of polyethylene. Although, there is no current GRI standard specification for VLDPE geomembranes, HydraFlex™ V30B does meet the GRI-GM17 Standard Specification for Linear-Low Density Polyethylene (LLDPE) in comparison.

SIZE & PACKAGING

HydraFlex™ V30B is available in large, pre-fabricated panels up to 50,000 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

HydraFlex™ V30B

APPLICATIONS

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

HYDRAFLEX™ V30B

FLEXIBLE VLDPE POLYETHYLENE

		HYDRAFLEX™ V30B			
		IMPERIAL		METRIC	
PROPERTIES	TEST METHOD	MINIMUM	TYPICAL	MINIMUM	TYPICAL
THICKNESS, AVERAGE	ASTM D5199	30 mil	31 mil	0.76 mm	0.79 mm
WEIGHT		140 lbs/msf	145 lbs/msf	684 g/m ²	708 g/m ²
TENSILE STRENGTH AT BREAK	ASTM D6693	90 ppi	120 ppi	158 N/cm	210 N/cm
TENSILE ELONGATION AT BREAK	ASTM D6693	700 %	970 %	700 %	970 %
TEAR RESISTANCE	ASTM D1004	9 lbs	11 lbs	40 N	49 N
PUNCTURE RESISTANCE	ASTM D4833	40 lbs	47 lbs	178 N	209 N
2 % SECANT MODULUS	ASTM D5323	8,300 psi		57 Mpa	
MULTIAXIAL TENSION ELONGATION	ASTM D5617	400 %		400 %	
CARBON BLACK CONTENT	ASTM D4218	2.0 - 3.0 %	2.5 %	2.0 - 3.0 %	2.5 %
CARBON BLACK DISPERSION	ASTM D5596	Meets GRI-GM17			
HIGH PRESSURE HPOIT	ASTM D5885	400 min		2,000 min	
OVEN AGING AT 85° C (90 Days)	GRI GM17	Pass		Pass	
UV RESISTANCE (1600 Hours)	GRI GM17	Pass		Pass	
HYDRAULIC CONDUCTIVITY		2.4 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	40 lbf/in width	45 lbf/in width	178 N	200 N
SEAM PEEL ADHESION	ASTM D6392	20 lbf/in width	25 lbf/in width	89 N	111 N



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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

RAVEN ENGINEERED FILMS

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