

HYDRAFLEX™ ULTRA HU40

MEETS GRI-GM17 STANDARD SPECIFICATION



PRODUCT DESCRIPTION

HydraFlex™ Ultra HU40B is a very flexible linear-low density polyethylene geomembranes. Virgin grade high-strength LLDPE provides exceptional elongation, tensile and impact strength. Antioxidants and a minimum carbon black content of 2.0% delivers excellent protection from UV rays and harsh weather conditions. HydraFlex™ Ultra is exceptionally pliable and conforming, and is preferred for ease-of-field seaming or factory fabricated high strength seams.

PRODUCT USE

HydraFlex™ Ultra HU40B is used in containment applications that require excellent outdoor longevity, chemical resistance and exceptional toughness, even in cold weather environments. HydraFlex™ Ultra is highly flexible and conforms easily to uneven surfaces, and is engineered to be used in more critical applications including the fish-safe requirements for aquaculture. HydraFlex™ Ultra HU40B meets or exceeds the comprehensive requirements of GRI-GM17 Standard Specification for (LLDPE) geomembranes, and perform well in water and waste water applications for commercial and municipal projects. HydraFlex™ Ultra HU40B is recommended and meets the performance expectations for use in coal ash capping and temporary capping systems requiring extended longevity.

SIZE & PACKAGING

HydraFlex™ Ultra HU40B is available in up to 37,500 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™ Ultra Pond Liner

PRODUCT

PART

HYDRA FLEX™ ULTRA..... HU40B

APPLICATIONS

Decorative Ponds	Mine Tailing Ponds
Pond/Canal Liners	Interim Landfill Caps
Outdoor Covers	Waste Water Ponds
Fire Ponds	Golf Course Pond Liners
Remediation Liners	Farm Ponds
Brine Ponds	Leachate Collection Ponds
Oil Field Pit Liners	

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PRO-FORMA DATA SHEET

PRO-FORMA DATA SHEET		HYDRA FLEX™ ULTRA HU40B			
		IMPERIAL		METRIC	
PROPERTIES	TEST METHOD	MINIMUM	TYPICAL	MINIMUM	TYPICAL
APPEARANCE		Black		Black	
THICKNESS, AVERAGE	ASTM D5199	40 Mils	41 Mils	1.02 mm	1.04 mm
LOWEST INDIVIDUAL THICKNESS	ASTM D5199	36 Mils	38 Mils	0.91 mm	0.97 mm
WEIGHT		200 lbs/msf		976 g/m²	
TENSILE STRENGTH AT BREAK	ASTM D6693	152 ppi	233 ppi	266 N/cm	408 N/cm
TENSILE ELONGATION AT BREAK	ASTM D6693	800 %	950 %	800 %	950 %
TEAR RESISTANCE	ASTM D1004	22 lbs	25 lbs	98 N	111 N
PUNCTURE RESISTANCE	ASTM D4833	56 lbs	90 lbs	249 N	400 N
STANDARD OIT OR HIGH PRESSURE HPOIT	ASTM D3895 ASTM D5885	100 min 400 min	190 min 2,000 min	100 min 400 min	190 min 2,000 min
CARBON BLACK	ASTM D4218	2 % - 3 %	2.5 %	2 % - 3 %	2.5 %
CARBON BLACK DISPERSION	ASTM D5596	Pass			
2% SECANT MODULUS (MAXIMUM)	ASTM D5323	60,000 psi Maximum	30,000 psi	414 Mpa Maximum	207 Mpa
HYDRAULIC CONDUCTIVITY		1.8 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	70 lbf/in width	91 lbf/in width	311 N/cm width	405 N/cm width
SEAM PEEL ADHESION	ASTM D6392	60 lbf/in width	73 lbf/in width	267 N/cm width	325 N/cm width

****PRO-FORMA Contents:** Data listed for HydraFlex Ultra HU40B is extrapolated from similar products and initial prototypes and is subject to change at any time as additional test data becomes available.



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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. VIAFLEX 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.viaflex.com

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