



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.

APPLICATIONS

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

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 AND 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.



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PROPERTIES	TEST METHOD	IMPERIAL		METRIC	
		MINIMUM	TYPICAL	MINIMUM	TYPICAL
Appearance	-	Black		Black	
Thickness, Average	ASTM D5199	40 mil	41 mil	1.02 mm	1.04 mm
Lowest Individual Thickness	ASTM D5199	36 mil	39 mil	0.91 mm	0.99 mm
Weight	-	200 lbs/msf		976 g/m ²	
Tensile Strength at Break	ASTM D6693	168 ppi	224 ppi	294 N/cm	392 N/cm
Tensile Elongation at Break	ASTM D6693	800%	950%	800%	950%
Tear Resistance	ASTM D4833	23 lbs	25 lbs	102 N	111 N
Puncture Resistance	ASTM D4833	60 lbs	88 lbs	267 N	391 N
Standard OIT or High Pressure HPOIT	ASTM D3895 ASTM D5885	100 min 400 min	190 min 2000 min	100 min 400 min	190 min 2000 min
Carbon Black	ASTM D4218	2% - 3%	2.5%	2% - 3%	2.5%
Carbon Black Dispersion	ASTM D5596	Pass			
2% Sceant Modulus (max)	ASTM D5323	60,000 psi max	30,000 psi	414 Mpa max	207 Mpa
Hydraulic Conductivity	-	1.8 x 10 ⁻¹⁰ cm/sec			
Maximum Static Use Temp	-	180°F		82°C	
Minumum Static Use Temp	-	-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	45 lbf/in width	73 lbf/in width	267 N/cm width	325 N/cm width

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. AMERICOVER, INC. 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.Americover.com

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