

# HYDRALINE™ LL40BG TEXTURED

LINEAR LOW-DENSITY TEXTURED POLYETHYLENE – 23' LAYFLAT - MEETS GRI-GM17



## PRODUCT DESCRIPTION

HydraLine™ LL40BG1 & LL40BG2 are co-extruded 1-side or 2-side smooth-edge textured linear low-density polyethylene (LLDPE) geomembranes manufactured with high-quality resins providing exceptional elongation, multiaxial stress resistance, and flexibility. HydraLine™ LLT-Series features include resistance to stress cracking and U.V. stabilization for long-term performance and resistance to degradation. The textured surface incorporates increased friction angles to provide higher stability on steep slopes, stabilization for earthen and secondary geosynthetics, and increased resistance for work-site safety.

HydraLine™ LLT-Series requires specialized welding equipment and certified welding technicians to be properly installed. Welding is completed with hot wedge fusion welders on long field seams, and extrusion welders are used on detail work and pipe penetrations.

HydraLine™ LL40BG1 & LL40BG2 textured geomembranes are available in black as standard and in custom colors with minimum order quantity requirements.

## PRODUCT USE

HydraLine™ LL40BG1 & LL40BG2 geomembranes are used in applications requiring increased frictional resistance, U.V. stability and flexibility to conform to a variety of surfaces. HydraLine™ LLT-Series geomembranes are a cost effective solution for larger size lining projects. This product is successfully used in landfills, waste water treatment lagoons, animal waste lagoons, mining applications and many more.

HydraLine™ LL40BG1 & LL40BG2 meet the physical property values as stated in GRI test method GM13 standard specification.

## SIZE & PACKAGING

HydraLine™ LL40BG1 & LL40BG2 geomembrane liners are shipped to job sites in large 23' wide layflat master rolls tightly rolled on a heavy-duty core and deployed by on site equipment. Seaming by certified installation technicians occurs in the field by heat fusion welding equipment.



Landfill Cover

## PRODUCT

## PART #

HydraLine™ LL40BG1 .....	LL400BBG1
HydraLine™ LL40BG2.....	LL400BBG2

## APPLICATIONS

- Decorative Ponds & Lakes
- Landfill Covers & Caps
- Golf Course Ponds
- Golf Green & Bunker Liners
- Gas Collection Covers
- Pond & Lake Liners
- Irrigation Reservoirs
- Waste Water Treatment Lagoons
- Mining Tailing & Heap Leach Pads
- Secondary Containment
- Canal Liners

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		HYDRALINE™ LL40BG1 & LL40BG2			
		IMPERIAL		METRIC	
PROPERTIES	TEST METHOD	TEST VALUE	TESTING FREQUENCY (MINIMUM)	TEST VALUE	TESTING FREQUENCY (MINIMUM)
APPEARANCE		Black, & Custom Colors Available with Minimum Order Quantity			
CORE THICKNESS (MIN. AVG.)	ASTM D5994	38 Mils	Per roll	0.97 mm	Per roll
ASPERITY HEIGHT (MIN. AVG.) <sup>1</sup>	ASTM D7466	16 Mils	Per every 2nd roll	0.40 mm	Per every 2nd roll
FORMULATED DENSITY (MAX.)	ASTM D1505 / ASTM D792	0.939 g/cc	200,000 lb	0.939 g/cc	90,000 kg
TENSILE PROPERTIES (MIN. AVG.) <sup>1</sup> - BREAK STRENGTH - BREAK ELONGATION	ASTM D6693 Type IV	60 lb/in 250 %	20,000 lb	11 N/mm 250 %	9,000 kg
2% MODULUS (MAX.)	ASTM D5323	2400 lb/in	per formulation	420 N/mm	per formulation
TEAR RESISTANCE (MIN. AVG.)	ASTM D1004	22 lb	45,000 lb	100 N	20,000 kg
PUNCTURE RESISTANCE (MIN. AVG.)	ASTM D4833	44 lb	45,000 lb	200 N	20,000 kg
AXI-SYMMETRIC BREAK RESISTANCE (MIN.) <sup>1</sup>	ASTM D5617	30 %	Per formulation	30 %	Per formulation
CARBON BLACK CONTENT <sup>1</sup>	ASTM D4218	2.0-3.0 %	45,000 lb	2.0-3.0 %	20,000 kg
CARBON BLACK DISPERSION	ASTM D5596	Pass	45,000 lb	Pass	20,000 kg

<sup>1</sup> See reference notations for the listed test methods located in the Geosynthetics Research Institute; GRI-GM17 Standard Specification.



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HydraLine™ LL40BG1 & LL40BG2 meet the physical property values as stated by the Geosynthetics Institute in the GRI test method GM17 standard specification.

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](http://www.viaflex.com)

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