

# HYDRALINE™ HD60

HIGH DENSITY POLYETHYLENE – LAYFLAT – MEETS GRI-GM13

RAVEN

## PRODUCT DESCRIPTION

HydraLine™ HD60 is made from high density polyethylene (HDPE) resins protected by UV stabilizers to provide exceptional longevity and durability. HydraLine™ HD60 has great chemical resistance and a fairly low permeability as a result of the HDPE properties.

HydraLine™ HD60 requires specialized welding equipment and certified welding technicians to be properly installed. Welding is done with hot wedge welders on long field seams, and extrusion welders are used on detail work and pipe penetrations.

HydraLine™ HD60 is available in smooth, textured, and conductive variations. Colors include black and custom colors with minimum quantity requirements.

## PRODUCT USE

HydraLine™ HD-Series is an excellent product for large applications that require UV stability and chemical resistance. HydraLine™ HD-Series geomembranes are a cost effective choice for large and exposed lining projects. This product is successfully used in landfills, waste water treatment lagoons, animal waste lagoons, mining applications and more.

HydraLine™ HD-Series meets the physical property values as stated in GRI test method GM13.

## SIZE & PACKAGING

HydraLine™ HD60 is shipped to job sites in large 22.5' or 23' wide master rolls tightly rolled on to a heavy core and deployed by on site equipment. Seaming by certified installation technicians occurs in the field by heat fusion welding.



Waste Lagoon Liner

PRODUCT	PART #
HydraLine™ .....	HD60B
HydraLine™ .....	HD60W

## APPLICATIONS

- Landfill Liner & Caps
- Animal Waste Lagoons
- Golf Course Ponds
- Gas Collection Covers
- Pond & Lake Liners
- Irrigation Reservoirs
- Waste Water Treatment Lagoons
- Mining Tailing & Heap Leach Pads
- Canal Lining

# HYDRALINE™ HD60

HIGH DENSITY POLYETHYLENE – LAYFLAT

		HydraLine™ HD60			
		IMPERIAL		METRIC	
PROPERTIES	TEST METHOD	TEST VALUE	TESTING FREQUENCY (MINIMUM)	TEST VALUE	TESTING FREQUENCY (MINIMUM)
APPEARANCE		Black, White, & Custom Colors Available with Minimum Order Quantity			
THICKNESS (MIN. AVG.)	ASTM D5199	60 Mils	Per roll	1.50 mm	Per roll
FORMULATED DENSITY (MINIMUM)	ASTM D1505 / ASTM D792	0.940 g/cc	200,000 lb	0.940 g/cc	90,000 kg
TENSILE PROPERTIES (MIN. AVG.) <sup>1</sup> - YIELD STRENGTH - BREAK STRENGTH - YIELD ELONGATION - BREAK ELONGATION	ASTM D6693 Type IV	126 lb/in. 228 lb/in. 12 % 700 %	20,000 lb	22 kN/m 40 kN/m 12 % 700 %	9,000 kg
TEAR RESISTANCE (MIN. AVG.)	ASTM D1004	42 lb	45,000 lb	187 N	20,000 kg
PUNCTURE RESISTANCE (MIN. AVG.)	ASTM D4833	108 lb	45,000 lb	480 N	20,000 kg
STRESS CRACK RESISTANCE <sup>1</sup>	ASTM D5397 (App.)	500 hr	Per GRI-GM10	500 hr	Per GRI-GM10
CARBON BLACK CONTENT (RANGE) <sup>1</sup>	ASTM D4218	2.0-3.0 %	20,000 lb	2.0-3.0 %	9,000 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-GM13 Standard Specification.



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

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