

ABSOLUTE BARRIER® XB60BCL

RAVEN

HDPE TEXTURED GAS BARRIER - FORMULATED FOR EXPOSED APPLICATIONS

PRODUCT DESCRIPTION

Absolute Barrier® XB60BCL is a seven-layer co-extruded geomembrane consisting of durable high-density polyethylene (HDPE) and an inner core of highly effective barrier resin, designed specifically as a barrier against methane, radon, landfill odors, and VOCs. High strength HDPE provides excellent chemical resistance and outdoor durability. A robust stabilization package that exceeds the industry standard; provides long-term protection from thermal oxidation and ultraviolet degradation in exposed applications. The aggressive surface texture provides excellent stabilization for earthen and secondary geosynthetics, as well as work site safety.

PRODUCT USE

Absolute Barrier® XB60BCL is formulated to effectively stop gas vapor and odor migration in long-term outdoor cover, containment, and capping applications. XB60BCL has been specifically designed to perform in the municipal solid waste industry as landfill covers, caps and impoundment containment covers.

Absolute Barrier® XB60BCL is an effective temporary and long-term landfill cap and is less permeable to VOCs than standard 80 mil HDPE geomembranes. Contaminants found in leachate and landfill gas in municipal and hazardous waste landfills can migrate through standard HDPE contributing to both atmospheric and groundwater contaminations.

Absolute Barrier® XB60BCL provides an effective barrier to a wide range of VOCs including benzene, toluene, trichloroethylene, perchloroethylene, and many others.

SIZE & PACKAGING

Absolute Barrier® XB60BCL is available in 16' wide layflat in various roll lengths. All panels are tightly rolled onto a heavy-duty core for ease of handling and time saving installation. Absolute Barrier® geomembranes are black or can be manufactured in other custom colors with minimum quantity order requirements.



Landfill Odor Control Barrier

PRODUCT

PART

ABSOLUTE BARRIER® XB60BCL

APPLICATIONS

Landfill Odor Control Barrier	Remediation Cover / Liner
Landfill Covers & Caps	Leachate Collection Ponds
Floating Covers	Brownfield Barriers
Underslab VOC Barrier	Impoundment Covers

Absolute Barrier®
THE ULTIMATE IN GAS CONTAINMENT

ABSOLUTE BARRIER® XB60BCL

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PRO-FORMA DATA SHEET - TYPICAL VALUES

		ABSOLUTE BARRIER® XB60BCL			
		IMPERIAL		METRIC	
PROPERTIES	TEST METHOD	MINIMUM	TYPICAL	MINIMUM	TYPICAL
APPEARANCE		Black		Black	
THICKNESS	ASTM D5994	57 Mil Average	60 Mil Nominal	1.45 mm Average	1.52 mm Nominal
ASPERITY HEIGHT	ASTM D7466	16 Mil	18 Mil	0.41 mm	0.46 mm
WEIGHT		315 lbs/msf		1538 g/m ²	
DENSITY	ASTM D792	0.94 g/cm ³	0.95 g/cm ³	0.94 g/cm ³	0.95 g/cm ³
TENSILE STRENGTH AT YIELD	ASTM D6693	126 lbs/in	162 lbs/in	221 N/cm	284 N/cm
TENSILE STRENGTH AT BREAK	ASTM D6693	90 lbs/in	190 lbs/in	158 N/cm	333 N/cm
TENSILE ELONGATION AT YIELD	ASTM D6693	12 %	15 %	12 %	15 %
TENSILE ELONGATION AT BREAK	ASTM D6693	100 %	420 %	100 %	420 %
TEAR STRENGTH	ASTM D1004	42 lbs	52 lbs	187 N	231 N
PUNCTURE RESISTANCE	ASTM D4833	90 lbs	138 lbs	400 N	614 N
OXIDATION INDUCTION TIME (OIT) OR HIGH PRESSURE OIT (HPOIT)	ASTM D3895 ASTM D5885	100 min 400 min	180 min	100 min 400 min	180 min
CARBON BLACK CONTENT ⁷	ASTM D4218	2.0 %			
CARBON BLACK DISPERSION	ASTM D5596	Pass			
STRESS CRACK RESISTANCE ⁸	ASTM D5397	500 hrs	1800 hrs	500 hrs	1800 hrs
BENZENE PERMEANCE	See Note ⁶	3.43E ⁻⁰⁹ m/s			
TOLUENE PERMEANCE	See Note ⁶	6.51E ⁻⁰⁹ m/s			
ETHYLBENZENE PERMEANCE	See Note ⁶	1.21E ⁻⁰⁸ m/s			
M & P-XYLENES PERMEANCE	See Note ⁶	1.31E ⁻⁰⁸ m/s			
O-XYLENE PERMEANCE	See Note ⁶	1.08E ⁻⁰⁸ m/s			
COLD TEMPERATURE IMPACT	ASTM D746	-40° F		-40° C	
MAXIMUM STATIC USE TEMPERATURE		180° F		82° C	

⁶ Aqueous Phase Film Permeance.
Diffusive Transport of VOCs through LLDPE and Two Coextruded Geomembranes,
McWatters and Rowe, Journal of Geotechnical and Geoenvironmental Engineering ©
ASCE/September 2010. (Permeance is the Permeation Coefficient adjusted to actual
film thickness)

⁷ No carbon black in barrier layers.

⁸ Test frequency according to GRI GM10, base polyethylene resin.

PRO-FORMA SHEET CONTENTS: The data listed in the Pro-Forma data sheet is representative of initial production runs. These values may be revised at anytime without notice as additional test data becomes available.

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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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