

Product Description

LLDPE 2010B, 3010B and 4010B are membranes consisting of a blended linear polyethylene. Carbon black provides protection from UV rays. LLDPE 2010B, 3010B and 4010B do not contain plasticizers that in time can migrate to the surface, causing premature aging. Manufactured from virgin and select reprocessed resins, LLDPE 10-Series membranes are designed to provide an economical solution to many applications.

Product Use

LLDPE 2010B, 3010B and 4010B are used in applications requiring high puncture and tear resistance. The carbon black additive assures long outdoor life. LLDPE 2010B, 3010B and 4010B are flexible and will conform to a variety of surfaces.

Size & Packaging

LLDPE 2010B, 3010B and 4010B are available in large fabricated panels up to 60,000 sq. ft. in 2010B, 40,000 sq. ft. in 3010B and 30,000 sq. ft. in 4010B. All panels are accordion folded every 5 feet and rolled tightly on a heavy-duty core for ease of handling.



Pond Liner

Product	Part #
LLDPE	2010B
LLDPE	3010B
LLDPE	4010B

APPLICATIONS

- Interim Landfill Covers
- Canal Linings
- Decorative Ponds
- Outdoor Coverings
- Brine Ponds
- Fire Ponds
- Remediation Liners
- Farm Ponds
- Oil Field Pit Liners



GeoCHEM LLDPE 2010B, 3010B & 4010B



Linear Black Polyethylene

PROPERTIES	TEST METHOD	LLDPE 2010B		LLDPE 3010B		LLDPE 4010B	
		Imperial	Metric	Imperial	Metric	Imperial	Metric
APPEARANCE		Black		Black		Black	
THICKNESS, NOMINAL		20 mil	0.51 mm	30 mil	0.75 mm	40 mil	1.00 mm
WEIGHT		93 lbs/MSF	453 g/m ²	142 lbs/MSF	692 g/m ²	189 lbs/MSF	921 g/m ²
*TENSILE STRENGTH LBF/IN. (N/CM)	ASTM D6693	75 lbf	131 N	114 lbf	200 N	154 lbf	270 N
*ELONGATION AT BREAK	ASTM D6693	800%	800%	800%	800%	800%	800%
*TEAR RESISTANCE	ASTM D1004	11 lbf	49 N	16 lbf	71 N	22 lbf	98 N
MULLEN BURST	ASTM D751	100 psi	689 kPa	170 psi	1170 kPa	220 psi	1517 kPa
PUNCTURE RESISTANCE	ASTM D4833	30 lbf	133 N	45 lbf	200 N	60 lbf	267 N
VOLATILE LOSS	ASTM D1203	< 1%	< 1%	< 1%	< 1%	< 1%	< 1%
DIMENSIONAL STABILITY	ASTM D1204	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%
MAXIMUM USE TEMPERATURE		180°F	82°C	180°F	82°C	180°F	82°C
MINIMUM USE TEMPERATURE		-70°F	-57°C	-70°F	-57°C	-70°F	-57°C
PERMEABILITY							
PERMS grains/(ft ² ·hr·in·Hg) (g/(24hr·m ² ·mm Hg))	ASTM E96 Method A	0.041 Perms	(0.027) Perms	0.031 Perms	(0.020) Perms	0.024 Perms	(0.015) Perms
FACTORY SEAM REQUIREMENTS							
BONDED SEAM STRENGTH	**ASTM D6392	48 lbf/in.	84 N/cm	74 lbf/in.	130 N/cm	86 lbf/in.	150 N/cm
SEAM PEEL ADHESION	**ASTM D6392	47 lbf/in.	82 N/cm	52 lbf/in.	91 N/cm	84 lbf/in.	147 N/cm

*Tests are an average of MD and TD directions.

**Seam testing performed at 12" per minute.

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LLDPE 2010B, 3010B and 4010B contain a very high-strength polyethylene resin blended with our in-house trim and start-up material. LLDPE 2010B, 3010B and 4010B are offered as an alternative to our virgin resin films for non-critical applications. They may contain minor cosmetic gels, small surface particles and a lower minimum thickness tolerance.

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. GEOCHEM, 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.

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