POLYETHYLENE VAPOUR BARRIER
PRODUCT DATA SHEET

Since 1987, Mercury Plastics has been listed with the CGSB as a qualified producer of Polyethylene Vapour Barrier for use in building construction.

As a manufacturer of Vapour Barrier, Mercury Plastics is certified to the CAN / CGSB 51.34-M86 Standard. The Vapour Barrier produced at Mercury Plastics is suitable for use in various applications including above and interior below grade construction. The CAN/CGSB 51.34-M86 standard was written for 6.00 mil Polyethylene Vapour Barrier and is **not** meant to include below concrete slab or crawl space damp proofing applications.

Mercury Plastics **recommends** the use of 10.00 or 15 mil Polyethylene Vapour Barrier for use below concrete slabs, in crawl spaces and foundation damp proofing. The requirements of the standard are strict concerning the materials used and the physical properties of the final product.

Mercury Plastics Vapour Barrier is manufactured to not simply meet the requirements of CAN / CGSB 51.34-M86 but to exceed them.

Twice annually, external testing is performed to ensure that the Vapour Barrier manufactured by Mercury Plastics of Canada continues to meet
the requirements of the standard. Mercury Plastics Quality Management System is audited annually by the CGSB in addition to internal audits conducted throughout the year.

REQUIREMENTS AND SPECIFICATIONS ~ 10.00mil-15.00mil

	CAN / CGSB 51.34-M86 Requirements	Mercury Plastics Specifications	MPC Typical Values	Standards Reference
Impact Test Dart Weight	300 gram dart dropped from 26”	400 gram dart dropped from 26”	Not Less Than 484 grams	ASTM 1709 Method A
Mil Thickness	Not Less Than 10 Mil or 15 Mil	Not Less Than 10 Mil or 15 Mil	Not Less Than 10 Mil or 15 Mil	ASTM D 1203
Sheet Length	Min. Minus 0 inches Max. Unspecified	Min. Minus 0 inches Max. Unspecified	Complies	Ref: (Par 5.1) of CAN/CGSB 51.34-M86
Sheet Width	Min. (-)1.0% of specified size (inches) Max. (+) Unspecified	Min. (-)1.0% of specified size (inches) Max. (+) Unspecified	Complies	Ref: (Par 5.1) of CAN/CGSB 51.34-M86
Oxidative Induction Time	30 minutes @ 190 C	30 minutes @ 190 C	56.85 (+) minutes	ASTM D3895
Resin Properties Density Melt Index	0.905 - 0.930 g/ml 1.5 g/10 min. max.	0.905 - 0.930 g/ml 1.5 g/10 min. max.	0.920 1.230	ASTM D 1505 Density ASTM D 1238 Melt
Water Vapour Permeance	15 ng/Pa.s.m2	15 ng/Pa.s.m2	4.47 (+) ng/Pa.s.m2	ATSM E 96, Method B
Recycled Content: Post / Pre-consumer	Virgin Resin Only	Virgin Resin Only	N/A	CAN/CGSB 51.34-M86 par. 5.2 (See note #2)
Flame Spread Smoke Developed			FSC1: 0 SD: 5	CAN/ULC-S102.2-03 (See note #3)

Note 1: MPC Typical Values are historical averages across the entire Vapour Barrier product line and do not indicate absolute target values. This document is not considered a warranty.

Note 2: In accordance with the requirements described in the CAN/CGSB 51.34-M86 Standard, only virgin resin may be used in the production of polyethylene vapour barrier. Par. 5.2 Resin Properties - Only virgin resin shall be employed of a density range 0.905 to 0.930 g/mL.

**Note 3: Flame spread and smoke developement of polyethylene vapour barrier is compared to that of Red Oak, which has a classification of 100. Flame Spread and smoke development Classifi cation does not fall under the mandate of the CAN/CGSB 51.34-M86 Standard but is covered under the Canadian National.

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