

ANALYSIS REPORT
SCC Accreditation No.: 40‡

Mr. Guy Labonté

Date: July 7, 2020

Papiers Couchés Atlantic Ltée.

Report: 4254-002S-1B-en

IDENTIFICATION:	CAN/CGSB-51.33-M89 _ Vapour Barrier Sheet, Excluding Polyethylene, for Use in Building Construction: ACP VAPOR PROTECTOR 30/40/30 Received: April 14, 2020, PO: 124691	
STANDARD:	Vapour Barrier Sheet, Excluding Polyethylene, for Use in Building Construction	CAN/CGSB-51.33-M89
TEST:	Tensile Properties of Paper and Paperboard Using Constant-Rate-of- Elongation Apparatus	ASTM D828-97(2002)
TEST CONDITIONS:	Conditioning atmosphere: 21±2°C, 65% R.H.; Apparatus used: Dynamometer with a Constant Rate of Extension (CRE); Systems of jaws: hydraulic, covered with rubber; Width of the specimen (mm): 25.4 Speed (mm/min): 25.4 Initial grip separation (mm): 100 Date of test: April 24, 2020	

RESULTS:	Individual Data					Avg.	S.D.	% CV
1-MACHINE DIRECTION	...							
1-Tensile Strength (N/mm):	7.14	7.57	7.65	7.21	7.66	7.51	0.23	3.1
	7.39	7.72	7.71	7.73	7.27			
1-Tensile Strength (lbf/in):	40.8	43.2	43.7	41.2	43.7	42.9	1.3	3.1
	42.2	44.1	44.0	44.2	41.5			
1-Elongation (%):	2.48	2.50	2.62	2.55	2.67	2.54	0.10	4.0
	2.59	2.51	2.52	2.65	2.32			

REQUIREMENTS: The tensile strength in the machine direction shall not be less than 3.5 N/mm of specimen width.

Prepared by:

Catherine Groleau Rivard
Catherine Groleau Rivard, Tech.
Technician

Approved by:

Alejandro Maupomé
Alejandro Maupomé, Eng., Ph.D.
Project Leader

Date: July 7, 2020

****For any information concerning this report, please contact Alejandro Maupomé.****

The reports are identified by an alphanumeric code, the letter preceding "-en" refers to the revision number, emitted in ascending order. The electronic copy sent by CTT Group is the official report. The reported identification is based on what was observed on the received sample and/or information provided by the customer. The samples in relation to this report are retained for a period of 30 days following transmission of the report. The above reported results refer exclusively to the samples submitted for evaluation. This analysis report cannot be partly used or reproduced, unless in whole, without CTT Group prior written consent. ‡ The ISO/IEC 17025 Scope of Accreditation of CTT Group is available at www.gcttg.com. In this report, the tests which number is followed by the symbol ‡ are not covered by this accreditation. For customer's complete address, please refer to the email.

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STANDARD:	Vapour Barrier Sheet, Excluding Polyethylene, for Use in Building Construction	CAN/CGSB-51.33-M89
TEST:	Water Vapour Permeance (ASTM E96/E96M)	CAN/CGSB-51.33-M89 § 8.3.2
TEST CONDITIONS:	Conditioning atmosphere: 23±2°C, 50±5% R.H.; Type of container: aluminium; Procedure used: A Exposed Area: 63.62 cm ² ; Composition of sealant: Bitume Date of test: from April 24 to 27, 2020	

RESULTS:	Individual Data				Avg.	S.D.	% CV
BEFORE AGING	...						
Specimens thickness (mm):	0.238	0.244	0.232	0.237			
Water Vapour Transmission (g/m ² ·24h):	3.372	2.995	3.579	3.758	3.426	0.328	9.6
Permeance (ng/Pa·s/m ²):	28.00	24.80	29.70	31.20	28.43	2.75	9.7
Water Vapour Transmission (grains/h/ft ²):	0.201	0.178	0.213	0.224	0.204	0.020	9.7
Permeance (grains/h/ft ² /in Hg) (perms):	0.489	0.435	0.520	0.545	0.497	0.047	9.5

REQUIREMENTS: The water vapour permeance shall not exceed the following values:
- Type 2 : 45 ng/Pa·s·m² before aging and 60 ng/Pa·s·m² after aging.

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TEST:	Water Vapour Permeance (ASTM E96/E96M)	CAN/CGSB-51.33-M89 § 8.3.2
TEST CONDITIONS:	Conditioning atmosphere: 23±2°C, 50±5% R.H.; Type of container: aluminium; Procedure used: A Exposed Area: 63.62 cm ² ; Composition of sealant: Bitume Aging: 10 cycles of 3h in water at 21±2°C + 18h at 21±2°C + 3h at 50±2°C ; Date of test: from April 21 to May 1, 2020 (Cycles) and from May 7 to 9, 2020 (Water vapor transmission)	

RESULTS:	Individual Data				Avg.	S.D.	% CV
AFTER AGING	...						
Specimens thickness (mm):	0.308	0.332	0.376	0.387			
Water Vapour Transmission (g/m ² ·24h):	4.980	5.022	3.977	4.012	4.498	0.582	12.9
Permeance (ng/Pa·s/m ²):	41.30	41.30	33.00	33.33	37.23	4.70	12.6
Water Vapour Transmission (grains/h/ft ²):	0.297	0.299	0.237	0.239	0.268	0.035	12.9
Permeance (grains/h/ft ² /in Hg) (perms):	0.723	0.729	0.577	0.582	0.653	0.085	13.0

REQUIREMENTS: The water vapour permeance shall not exceed the following values:
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