

# POLILAM NEW MATERIAL (JIANGSU) CO, LTD. **TEST REPORT**

## SCOPE OF WORK

REPORT OF TESTING HIGH PRESSURE DECORATIVE LAMINATE (HPDL) FOR COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CRITERIA: CAN/ULC S102-18, STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES.

## REPORT NUMBER

104634008COQ-002 R0

## TEST DATE(S)

04/20/21 - 04/20/21

## ISSUE DATE

04/20/21

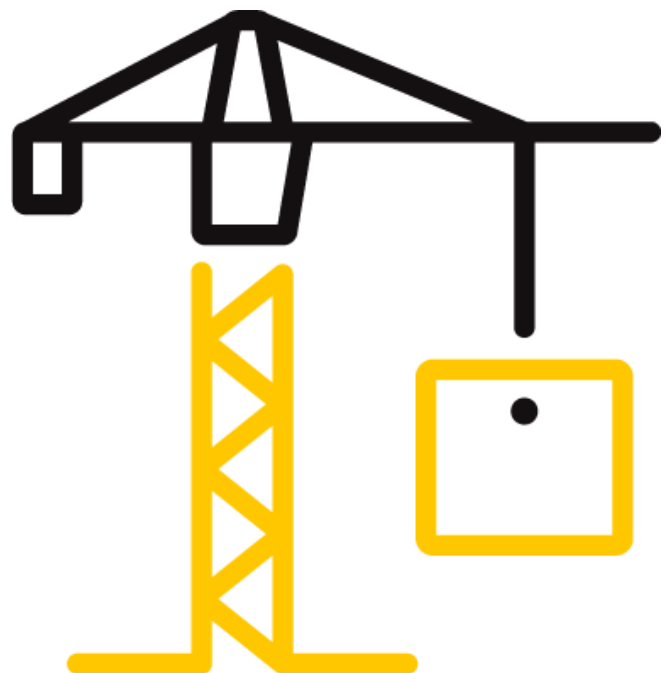
## PAGES

16

## DOCUMENT CONTROL NUMBER

GFT-OP-10c (09/29/20)

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**TEST REPORT FOR POLILAM NEW MATERIAL (JIANGSU) CO, LTD.**

Report No.: 104634008COQ-002 R0

Date: 04/20/21

**REPORT ISSUED TO****POLILAM NEW MATERIAL (JIANGSU) CO. LTD.****NO 2301 23RD FLOOR BUILDING 1 TIANNING TIMES SQUARE OFFICE BUILDING****CHANG ZHOU JS 213000 CHN****SECTION 1****SCOPE**

Intertek Building & Construction (B&C) was contracted PoliLam New Material (Jiangsu) Co. Ltd. No 2301 23rd Floor Building 1 Tianning Times Square Office Building Chang Zhou JS 213000 CHN. to perform testing in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies., on their High-Pressure Decorative Laminate (HPDL). Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek Testing Services NA Ltd. (Intertek) test facility at 1500 Brigantine Drive Coquitlam, BC Canada.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

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### SECTION 2

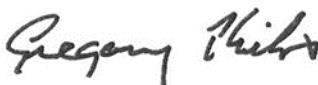
#### SUMMARY OF TEST RESULTS

The samples of High-Pressure Decorative Laminate (HPDL) submitted by PoliLam New Material (Jiangsu) Co. Ltd. were tested in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

The product test results are presented in Section 10 of this report.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Sean Fewer
<b>TITLE:</b>	Technician B&C
<b>SIGNATURE:</b>	
<b>DATE:</b>	04/21/21

<b>REVIEWED BY:</b>	Greg Philp
<b>TITLE:</b>	Reviewer- B&C
<b>SIGNATURE:</b>	
<b>DATE:</b>	04/21/21

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### SECTION 3

#### TEST METHOD(S)

The specimens were evaluated in accordance with the following:

**CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.**

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Samples were submitted to Intertek directly from the client and were not independently selected for testing and Intertek accepts no responsibility for any inaccuracies provided.

### SECTION 5

#### EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	11/06/21
WH 2190	Smoke Opacity Meter	Huygen	11/06/21
WH 1052	Data Logger	Phidgets DAQ 2020	11/06/21
	Flame Spread Tunnel (S102)	N/A	02/17/22

### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sean Fewer	Intertek B&C

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**SECTION 7****TEST CALCULATIONS**

The results of the tests are expressed by indexes, which compare the characteristics of the sample under tests relative to that of select grade red oak flooring and inorganic-cement board.

**(A) Flame Spread Rating:**

This index relates to the rate of progression of a flame along a sample in the 7620 mm tunnel. A natural gas flame is applied to the front of the sample at the start of the test and drawn along the sample by a draft kept constant for the duration of the test. An observer notes the progression of the flame front relative to time.

The test apparatus is calibrated such that the flame front for red oak flooring passes out the end of the tunnel in five minutes, thirty seconds (plus or minus 15 seconds).

**(B) Smoke Developed:**

A photocell is used to measure the amount of light, which is obscured by the smoke passing down the tunnel duct. When the smoke from a burning sample obscures the light beam, the output from the photocell decreases. This decrease with time is recorded and compared to the results obtained for red oak, which is defined to be 100.

**SECTION 8****TEST SPECIMEN DESCRIPTION**

Upon receipt of the samples at the Intertek Coquitlam laboratory they were placed in a conditioning room where they remained in an atmosphere of  $23 \pm 3^{\circ}\text{C}$  ( $73.4 \pm 5^{\circ}\text{F}$ ) and  $50 \pm 5\%$  relative humidity.

The sample material was identified as High-Pressure Decorative Laminate (HPDL). Each sample measured 0.8 mm thick by thick by 610 mm wide by 2440 mm long.

For each trial run, three 610 mm. wide by 2440 mm long pieces of sample material were placed on the upper ledge of the flame spread tunnel to form the required 7315 mm sample length. The sample material was supported by 6 mm. steel rods spaced every 610 mm and 20 ga. 50 mm x 50 mm galvanized steel netting spanning the upper ledge of the flame spread tunnel. A layer of 6 mm. thick reinforced cement board was placed over top of the samples, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102-18.

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**SECTION 9**

**TEST RESULTS**

**(A) Flame Spread**

The resultant flame spread ratings are as follows:

(Rating rounded to nearest 5)

High-Pressure Decorative Laminate (HPDL)	Flame Spread	Flame Spread Rating
Run 1	0	0
Run 2	0	
Run 3	0	

**(B) Smoke Developed**

The areas beneath the smoke developed curve and the related classifications are as follows:

(Classification rounded to nearest 5)

High-Pressure Decorative Laminate (HPDL)	Smoke Developed	Smoke Developed Classification
Run 1	54	50
Run 2	50	
Run 3	52	

**Observations**

During the test runs, there was no visible surface ignition.

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**SECTION 10**  
**CONCLUSION**

The samples of High-Pressure Decorative Laminate (HPDL) submitted by PoliLam New Material (Jiangsu) Co. Ltd. exhibited the following flame spread characteristics when tested in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

A series of three test runs of material was conducted to conform to the requirements of the National Building Code of Canada.

Sample Material	Flame Spread Rating	Smoke Developed Classification
High-Pressure Decorative Laminate (HPDL)	0	50

The conclusions of this test report may be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

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**SECTION 11**

**TEST DATA (6 PAGES)**



**TEST REPORT FOR POLILAM NEW MATERIAL (JIANGSU) CO, LTD.**

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**CAN/ULC S102-18 DATA SHEETS****Run 1**

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**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory

Client: Polilam

Date: 20 Apr 2021

Project Number: 104634008

Test Number: 1

Operator: Sean Fewer

Specimen ID and Description:

HPL Laminate

**TEST RESULTS**

FLAMESPREAD INDEX: 0.000

SMOKE DEVELOPED INDEX: 54.000

**SPECIMEN DATA**

Time to Ignition (sec): 0.000

Time to Max Flame Spread (min): 0.000

Maximum Flame Spread (mm): 0.000

Time to 527 C / 980 F (sec): 0.000

Max Temperature (deg F or C as per test standard): 241.330

Time to Max Temperature (sec): 599.214

Total Fuel Burned (cubic feet): 43.976

Flame Spread\*Time Area (M\*min): 0.000

Smoke Area (%A\*min): 84.216

Unrounded FSI: 0.000

Unrounded SDI: 54.185

**CALIBRATION DATA**

Time to Ignition of Last Red Oak (sec): 47

Calibrated Smoke Area (%A\*min): 155.423

15 point Heptane average for E84-19b  
5 point Red Oak average for S102Tested by: SFReviewed by: [Signature]

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**CAN/ULC S102-18 DATA SHEETS**

**Run 1**

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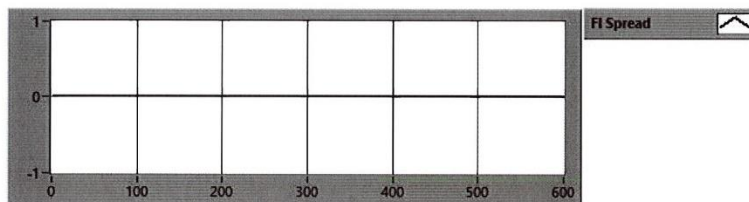
Client: Polilam

Project Number: 104634008

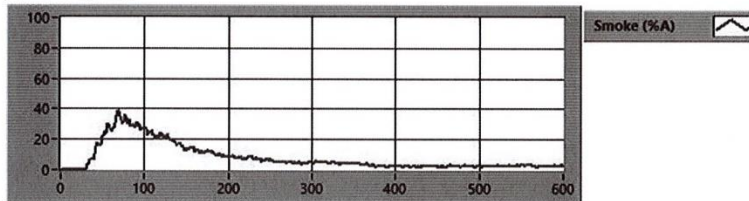
Test Number: 1

Test Standard: ULC S102

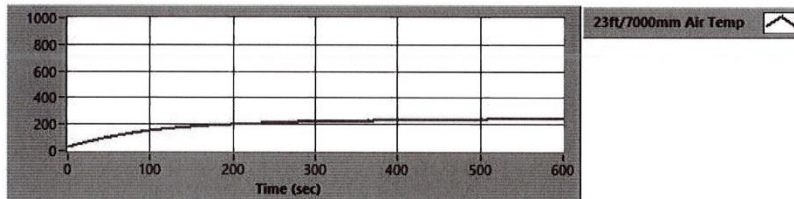
**FLAME SPREAD**



**SMOKE (%A)**



**TEMPERATURE**



Tested by: SF

Reviewed by: [Signature]

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## CAN/ULC S102-18 DATA SHEETS

### Run 2

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**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory  
Client: Polilam  
Date: 20 Apr 2021  
Project Number: 104634008  
Test Number: 2  
Operator: Sean Fewer

Specimen ID and Description:

HPL laminate

#### TEST RESULTS

FLAMESPREAD INDEX: 0.000  
SMOKE DEVELOPED INDEX: 50.000

#### SPECIMEN DATA

Time to Ignition (sec): 0.000  
Time to Max Flame Spread (min): 0.000  
Maximum Flame Spread (mm): 0.000  
Time to 527 C / 980 F (sec): 0.000  
Max Temperature (deg F or C as per test standard): 237.790  
Time to Max Temperature (sec): 594.847  
Total Fuel Burned (cubic feet): 43.902  
  
Flame Spread\*Time Area (M\*min): 0.000  
Smoke Area (%A\*min): 77.028  
Unrounded FSI: 0.000  
Unrounded SDI: 49.560

#### CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 48  
Calibrated Smoke Area (%A\*min): 155.423

15 point Heptane average for E84-19b  
5 point Red Oak average for S102

Tested by: SF

Reviewed by:

**TEST REPORT FOR POLILAM NEW MATERIAL (JIANGSU) CO, LTD.**

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**CAN/ULC S102-18 DATA SHEETS**

**Run 2**

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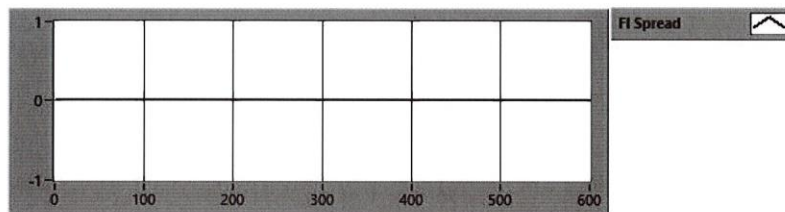
Client: Polilam

Project Number: 104634008

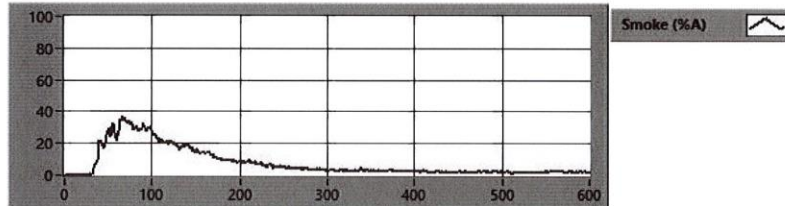
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Test Standard: ULC S102

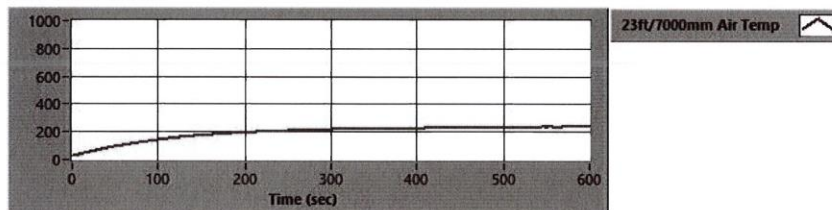
**FLAME SPREAD**



**SMOKE (%A)**



**TEMPERATURE**



Tested by: SF

Reviewed by: [Signature]

**TEST REPORT FOR POLILAM NEW MATERIAL (JIANGSU) CO, LTD.**  
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**CAN/ULC S102-18 DATA SHEETS**  
**Run 3**

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**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory  
Client: Polilam  
Date: 20 Apr 2021  
Project Number: 104634008  
Test Number: 3  
Operator: Sean Fewer

Specimen ID and Description:

HPL Laminate

**TEST RESULTS**

FLAMESPREAD INDEX: 0.000  
SMOKE DEVELOPED INDEX: 52.000

**SPECIMEN DATA**

Time to Ignition (sec): 0.000  
Time to Max Flame Spread (min): 0.000  
Maximum Flame Spread (mm): 0.000  
Time to 527 C / 980 F (sec): 0.000  
Max Temperature (deg F or C as per test standard): 240.170  
Time to Max Temperature (sec): 599.392  
Total Fuel Burned (cubic feet): 43.939  
  
Flame Spread\*Time Area (M\*min): 0.000  
Smoke Area (%A\*min): 80.617  
Unrounded FSI: 0.000  
Unrounded SDI: 51.870

**CALIBRATION DATA**

Time to Ignition of Last Red Oak (sec): 47  
Calibrated Smoke Area (%A\*min): 155.423

15 point Heptane average for E84-19b  
5 point Red Oak average for S102

Tested by: SF

Reviewed by:

**TEST REPORT FOR POLILAM NEW MATERIAL (JIANGSU) CO, LTD.**

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**CAN/ULC S102-18 DATA SHEETS**

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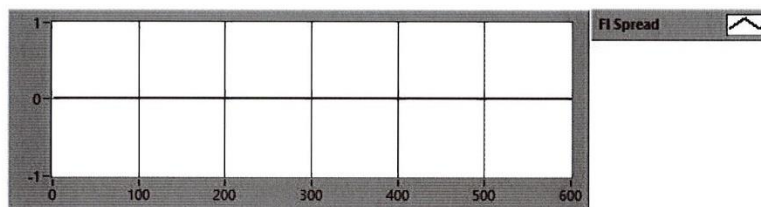
Client: Polilam

Project Number: 104634008

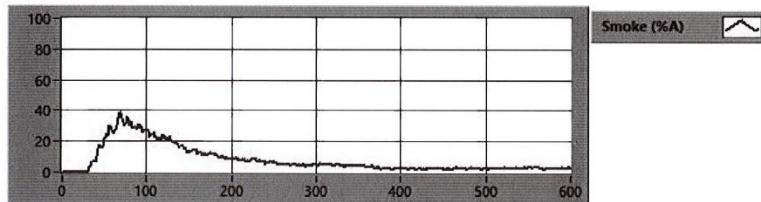
Test Number: 3

Test Standard: ULC S102

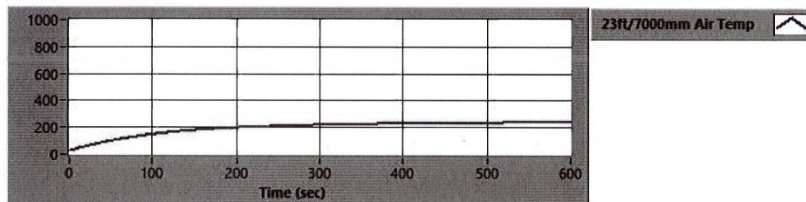
**FLAME SPREAD**



**SMOKE (%A)**



**TEMPERATURE**



Tested by: SF

Reviewed by: [Signature]

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**SECTION 12**

**PHOTOGRAPHS**



**Photo No. 1**  
**Pre-Test**



**Photo No. 2**  
**Post Test**

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**SECTION 13**

**REVISION LOG**

REVISION #	DATE	SECTION	REVISION
0	04/20/21	N/A	Original Report Issue