



PERFORMANCE TEST REPORT

Rendered to:

PALRAM AMERICAS, INC.

PRODUCT: Palboard Multilayer PVC Sheet

Report No.: G6730.01-106-31

Report Date: 01/25/17

Test Record Retention Date: 01/17/21



PERFORMANCE TEST REPORT

Rendered to:

PALRAM AMERICAS, INC.
9735 Commerce Circle
Arcadia West Industrial Park
Kutztown, Pennsylvania 19530

Report No.: G6730.01-106-31

Test Dates: 01/09/17

Through: 01/17/17

Report Date: 01/25/17

Test Record Retention Date: 01/17/21

Product: Palboard Multilayer PVC Sheet

Project Summary: Architectural Testing, Inc., an Intertek company ("Intertek-ATI"), was contracted by Palram Americas, Inc. to evaluate the vertical burn fire properties of Palboard Multilayer PVC Sheet. The product description, test procedure, and test results are reported herein. The results obtained from testing are shown in the table below.

Palboard Multilayer PVC Sheet Test Results

Material Thickness	Specimen Conditioning	Classification
3 mm	23 ±2°C and 50% RH for 48 hrs	V-0
	70 ±2°C for 168 hrs	V-0
5 mm	23 ±2°C and 50% RH for 48 hrs	V-0
	70 ±2°C for 168 hrs	V-0
10 mm	23 ±2°C and 50% RH for 48 hrs	V-0
	70 ±2°C for 168 hrs	V-0

Test Method: The test specimens were evaluated in accordance with UL 94, *Standard for Safety for Flammability of Plastic Materials for Parts in Devices and Appliances*, Sixth Edition, March 28, 2013, Section 8.

Product Description: The Palboard Multilayer PVC Sheet was submitted to Intertek-ATI by Palram Americas, Inc. in three thicknesses: 3 mm, 5 mm, and 10 mm. Twenty, nominally 5 in. x 0.5 in. specimens were submitted for each thickness. The material was tested as-received.

Test Procedure and Test Results: The testing procedure and results obtained from testing are reported as follows. All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Appendix A.

UL 94 Section 8 - 50W (20 mm) Vertical Burning Test

Ten specimens of each thickness were conditioned for 48 hours at 23 ±2°C and 50% RH prior to testing, and ten specimens of each thickness were conditioned for 168 hours at 70 ±2°C and then cooled in a room temperature desiccator at least four hours prior to testing. The vertical burn test was conducted with a laboratory burner (ICN: Y002875) that was confirmed in accordance with ASTM D5207. A specimen was supported vertically at one end and the free end exposed to a gas flame for 10 seconds, the flame removed and the specimen observed for afterflaming. After the specimen stopped flaming, the flame was reapplied for another 10 seconds, removed and the specimen observed for afterflaming and afterglowing.

Palboard Multilayer PVC Sheet (3 mm) - 23 ±2°C and 50% RH Conditioning

Specimen	1st Flame App.	2nd Flame App.		Burned to Holding Clamp	Dripped Flaming Particles	Ignited Cotton Indicator
	Afterflame (sec)	Afterflame (sec)	Afterflame plus Afterglow (sec)			
1	1	0	1	No	No	No
2	1	1	2	No	No	No
3	1	1	2	No	No	No
4	1	1	2	No	No	No
5	0	1	1	No	No	No
Total	8			Classification: V-0		

Note: Average specimen dimensions are 127 mm long x 12.5 mm wide x 2.9 mm thick.

Palboard Multilayer PVC Sheet (3 mm) - 70 ±2°C Conditioning

Specimen	1st Flame App.	2nd Flame App.		Burned to Holding Clamp	Dripped Flaming Particles	Ignited Cotton Indicator
	Afterflame (sec)	Afterflame (sec)	Afterflame plus Afterglow (sec)			
1	1	1	2	No	No	No
2	1	1	1	No	No	No
3	1	1	2	No	No	No
4	1	1	2	No	No	No
5	1	1	1	No	No	No
Total	10			Classification: V-0		

Note: Average specimen dimensions are 124 mm long x 12.7 mm wide x 3.0 mm thick.

Test Procedure and Test Results: (Continued)

UL 94 Section 8 - 50W (20 mm) Vertical Burning Test
(Continued)

Palboard Multilayer PVC Sheet (5 mm) - 23 ±2°C and 50% RH Conditioning

Specimen	1st Flame App.	2nd Flame App.		Burned to Holding Clamp	Dripped Flaming Particles	Ignited Cotton Indicator
	Afterflame (sec)	Afterflame (sec)	Afterflame plus Afterglow (sec)			
1	0	1	1	No	No	No
2	0	0	1	No	No	No
3	1	1	1	No	No	No
4	1	1	2	No	No	No
5	1	1	2	No	No	No
Total	7					

Note: Average specimen dimensions are 127 mm long x 12.6 mm wide x 5.0 mm thick.

Palboard Multilayer PVC Sheet (5 mm) - 70 ±2°C Conditioning

Specimen	1st Flame App.	2nd Flame App.		Burned to Holding Clamp	Dripped Flaming Particles	Ignited Cotton Indicator
	Afterflame (sec)	Afterflame (sec)	Afterflame plus Afterglow (sec)			
1	1	1	1	No	No	No
2	1	1	1	No	No	No
3	1	1	2	No	No	No
4	1	1	1	No	No	No
5	1	1	1	No	No	No
Total	10			Classification: V-0		

Note: Average specimen dimensions are 125 mm long x 12.6 mm wide x 5.2 mm thick.

Test Procedure and Test Results: (Continued)

UL 94 Section 8 - 50W (20 mm) Vertical Burning Test
(Continued)

Palboard Multilayer PVC Sheet (10 mm) - 23 ±2°C and 50% RH Conditioning

Specimen	1st Flame App.	2nd Flame App.		Burned to Holding Clamp	Dripped Flaming Particles	Ignited Cotton Indicator
	Afterflame (sec)	Afterflame (sec)	Afterflame plus Afterglow (sec)			
1	1	0	1	No	No	No
2	0	0	1	No	No	No
3	0	0	2	No	No	No
4	0	0	1	No	No	No
5	0	1	1	No	No	No
Total	2			Classification: V-0		

Note: Average specimen dimensions are 127 mm long x 12.7 mm wide x 10.1 mm thick.

Palboard Multilayer PVC Sheet (10 mm) - 70 ±2°C Conditioning

Specimen	1st Flame App.	2nd Flame App.		Burned to Holding Clamp	Dripped Flaming Particles	Ignited Cotton Indicator
	Afterflame (sec)	Afterflame (sec)	Afterflame plus Afterglow (sec)			
1	0	0	1	No	No	No
2	1	0	1	No	No	No
3	1	1	1	No	No	No
4	0	1	1	No	No	No
5	1	1	1	No	No	No
Total	6			Classification: V-0		

Note: Average specimen dimensions are 126 mm long x 12.8 mm wide x 10.4 mm thick.



Intertek-ATI will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Intertek-ATI for the entire test record retention period.

Results obtained are tested values and were secured using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI:

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Attachments (pages) This report is complete only when all attachments listed are included.
Appendix A - Photographs (2)



Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	01/25/17	N/A	Original report issue



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APPENDIX A

Photographs



Photo No. 1
50W (20 mm) Vertical Burning Test Set Up



Photo No. 2
Palboard Multilayer PVC Sheet (3 mm Thick) Post Test



Photo No. 3
Palboard Multilayer PVC Sheet (10 mm Thick) Post Test



Photo No. 4
Palboard Multilayer PVC Sheet (10 mm Thick) Post Test