



# TEST REPORT

3883 E. Eagle Drive, Anaheim, CA 92807-1722 / Phone 714-630-3003 • Fax 714-630-4443

TEST  
LABORATORIES

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Revised 1-14-07

<b>PTM &amp; W INDUSTRIES, INC.</b> 10640 SOUTH PAINTER AVENUE SANTA FE SPRINGS, CA 90670	<b>OCMTL NO.:</b> 220705 <b>DATE OF REPORT:</b> 04-19-02 <b>PURCHASE ORDER NO.:</b> 12852 <b>PHONE:</b> 562-946-4511 <b>FAX:</b> 562-941-4773
<b>ATTN: CHARLES E. OWEN</b>	

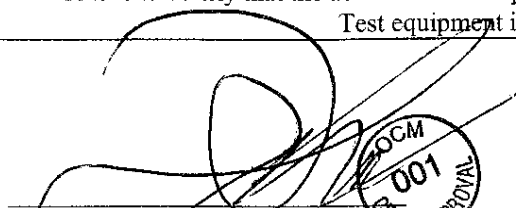
<b>TYPE OF TEST:</b>	<b>VERTICAL FLAMMABILITY (15 SECONDS BURN TEST)</b>
<b>MATERIAL IDENTIFICATION:</b>	<b>SUPPLIED LAMINATING SYSTEMS; RETARDANT EPOXY</b>
<b>LOT/BATCH/SERIAL NO.:</b>	<b>PT5355; RESIN WITH PART "B" HARDENER-FIRE</b>
<b>SPECIFICATION/REVISION:</b>	<b>FAR 25.853; APPENDIX: "F"</b>
<b>TEST PROCEDURE:</b>	<b>PART 1 (a) (1) (i) (4)</b>
<b>SPECIMEN CONDITIONS:</b>	<b>24 HOURS @ 70 +/- 5°F FOR 50 +/- 5% R.H.</b>
<b>TEST TEMPERATURE:</b>	<b>1650°F ACTUAL; (FLAME TEMPERATURE 1550°F MINIMUM); NATURAL GAS</b>
<b>DATE OF TEST:</b>	<b>04-16-02</b>


SAMPLE I.D.	BURN LENGTH	FLAME TIME	FLAME TIME
	(Inches)	(Drippings for Seconds)	(After Burn for Seconds)
1	0.110	0	0
2	0.110	0	0
3	0.110	0	0
<b>MAXIMUM REQUIREMENTS:</b>	<b>6 Inches</b>	<b>3 Seconds</b>	<b>15 Seconds</b>

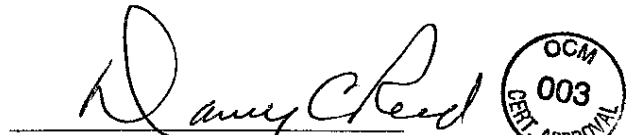
The above test results **MET** the requirements of the specification as noted above.


<b>EQUIPMENT:</b>	<b>CONTROL NUMBER:</b>	<b>CALIBRATION DATE:</b>	<b>CALIBRATION DUE:</b>
STOPWATCH	1953	07-24-01	07-24-02
THERMOMETER	1275	11-06-01	11-06-02

This is to certify that the above tests were performed in accordance with the terms of the purchase order requirements.  
Test equipment is calibrated with standards traceable to the NIST.

  
John A. Brunet  
Director of Quality



  
Darrell C. Reed  
Senior Quality Engineer





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<b>PTM &amp; W INDUSTRIES, INC.</b>	<b>OCMTL NO.:</b> 220705
<b>10640 SOUTH PAINTER AVENUE</b>	<b>DATE OF REPORT:</b> 04-18-02
<b>SANTA FE SPRINGS, CA 90670</b>	<b>PURCHASE ORDER NO.:</b> 12852
<b>ATTN: CHARLES E. OWEN</b>	<b>PHONE:</b> 562-946-4511
	<b>FAX:</b> 562-941-4773

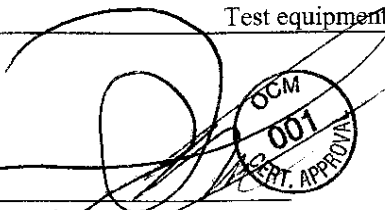
<b>TYPE OF TEST:</b>	<b>VERTICAL FLAMMABILITY (15 SECONDS BURN TEST)</b>
<b>MATERIAL IDENTIFICATION:</b>	<b>SUPPLIED LAMINATING SYSTEMS; RETARDANT EPOXY</b>
<b>LOT/BATCH/SERIAL NO.:</b>	<b>PT5355; RESIN WITH PART "B1" HARDENER-FIRE</b>
<b>SPECIFICATION/REVISION:</b>	<b>FAR 25.853; APPENDIX: "F"</b>
<b>TEST PROCEDURE:</b>	<b>PART 1 (a) (1) (i) (4)</b>
<b>SPECIMEN CONDITIONS:</b>	<b>24 HOURS @ 70 +/- 5°F FOR 50 +/- 5% R.H.</b>
<b>TEST TEMPERATURE:</b>	<b>1650°F ACTUAL; (FLAME TEMPERATURE 1550°F MINIMUM); NATURAL GAS</b>
<b>DATE OF TEST:</b>	<b>04-16-02</b>


SAMPLE I.D.	BURN LENGTH	FLAME TIME	FLAME TIME
	(Inches)	(Drippings for Seconds)	(After Burn for Seconds)
1	0.110	0	0
2	0.110	0	0
3	0.110	0	0
<b>MAXIMUM REQUIREMENTS:</b>	<b>6 Inches</b>	<b>3 Seconds</b>	<b>15 Seconds</b>

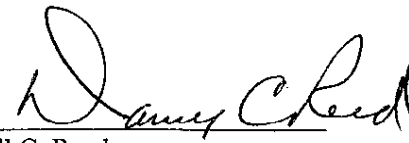
The above test results **MET** the requirements of the specification as noted above.


<b>EQUIPMENT:</b>	<b>CONTROL NUMBER:</b>	<b>CALIBRATION DATE:</b>	<b>CALIBRATION DUE:</b>
STOPWATCH	1953	07-24-01	07-24-02
THERMOMETER	1275	11-06-01	11-06-02

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Test equipment is calibrated with standards traceable to the NIST.

  
 John A. Brunet  
 Director of Quality



  
 Darrell C. Reed  
 Senior Quality Engineer





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**PTM & W INDUSTRIES, INCORPORATED**  
**10640 SOUTH PAINTER AVENUE**  
**SANTA FE SPRINGS, CALIFORNIA 90670**

**ATTN: SCOTT STETLER**

PAGE: 1 OF 4

DATE: **MAY 24, 2005**

OCMTL No: **250765**

PURCHASE ORDER:: **17013**

PHONE: **562 946-4511**

FAX: **562 941-4773**

**BACKGROUND:**

PTM & W Industries, Inc. submitted panels for Flammability testing per FAR Volume III, Part 25.853

(a)(1)(ii) The sample was identified as follows:

- 1) 10 Layer Panel 181 Cloth / PT 5355 W / B-2

**REFERENCE DOCUMENTS:**

Purchase Order Number . 17013

Flammability Test Procedure. FAR Volume III, Part 25.853 (a)(1)(ii) Titled: "Flammability of Interior Materials."

**TESTING:**

Prior to testing, each specimen, was conditioned for 24 hours at a temperature of 21± 2°C and a relative humidity of 50 ± 5.

The specimens were each inserted between two matching U-shaped frames. The U-shaped frames and sample were placed horizontally so that the frame holds both sides and one end, and that the open end is .075 inch above the top of the burner. A burner with a tube of 0.375 inside diameter was used. The gas-adjusting valve was set to provide a vertical flame of 1.50 inch in height with methane gas. Minimum flame temperature must be 1550°F.

Flame was applied for 12 seconds then removed. Flame time, burn length and flaming time of drippings, if any, were recorded.

Flammability testing consisted of testing the supplied sample in triplicate with the flame applied to the bottom edge. The following observations, measurements and calculations were made.

**TEST RESULTS:**

**FLAMMABILITY TEST DATA PER FAR VOLUME III, PART 25.853**

	Specimen #1	Specimen #2	Specimen #3	Average	Requirements
Flame Temp ° F	1722	1710	1622	1684	1500 ° F
Flame Time Seconds	2.1	1.5	1.1	1.57	Must not exceed 15 seconds
Flaming Drippings	None	None	None	None	Must extinguish before 3 seconds
Burn Length Inches	1.04	0.42	0.75	0.74	Maximum Burn Length 8.0 inches

**OBSERVATIONS:**

No drippings. Flame Time after flame source removed did not exceed maximum limits.

**CONCLUSION:**

The Samples tested met the requirements of FAR Volume III, Part 25.853 (a)(1)(ii).



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DATE: **MAY 24, 2005**

OCMTL No: **250765**

PURCHASE ORDER:: **17013**

PHONE: **562 946-4511**

FAX: **562 941-4773**

### Calibration of Equipment Used:

EQUIPMENT:	CONTROL NUMBER:	CALIBRATION DATE:	CALIBRATION DUE:
Burn Chamber	02049	09-08-04	03-08-06
Gas Pressure Gauge	02049B	09-08-04	03-08-06
Digital Timer	02049E	09-08-04	03-08-06

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OCMTL No: **250765**

PURCHASE ORDER:: **17013**

PHONE: **562 946-4511**

FAX: **562 941-4773**

**BACKGROUND:**

PTM & W Industries, Inc. submitted panels for Flammability testing per FAR Volume III, Part 25.853

(a)(1)(ii) The sample was identified as follows:

- 1) 5 Layer Panel 181 Cloth / PT 5355 W / B-2

**REFERENCE DOCUMENTS:**

Purchase Order Number . 17013

Flammability Test Procedure. FAR Volume III, Part 25.853 (a)(1)(ii) Titled: "Flammability of Interior Materials."

**TESTING:**

Prior to testing, each specimen was conditioned for 24 hours at a temperature of 21± 2°C and a relative humidity of 50 ± 5% and was tested under these conditions.

The specimens were each inserted between two matching U-shaped frames. The U-shaped frames and sample were placed horizontally so that the frame holds both sides and one end, and that the open end is .075 inch above the top of the burner. A burner with a tube of 0.375 inside diameter was used. The gas-adjusting valve was set to provide a vertical flame of 1.50 inch in height with methane gas. Minimum flame temperature must be 1550°F.

Flame was applied for 12 seconds then removed. Flame time, burn length and flaming time of drippings, if any, were recorded.

Flammability testing consisted of testing the supplied sample in triplicate with the flame applied to the leading edge. The following observations, measurements and calculations were made.

**TEST RESULTS:**

**FLAMMABILITY TEST DATA PER FAR VOLUME III, PART 25.853**

	Specimen #1	Specimen #2	Specimen #3	Average	Requirements
Flame Temp ° F	1760	1738	1692	1730	1500 ° F
Flame Time Seconds	71.9	59.3	89.3	73.5	Must not exceed 15 seconds
Flaming Drippings	None	None	None	None	Must extinguish before 3 seconds
Burn Length Inches	5.52	3.60	7.22	5.45	Maximum Burn Length 8.0 inches

**OBSERVATIONS:**

No drippings. Flame Time after flame source removed exceeded maximum limits.

**CONCLUSION:**

The Samples tested did not meet the requirements of FAR Volume III, Part 25.853 (a)(1)(ii).



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PURCHASE ORDER:: **17013**

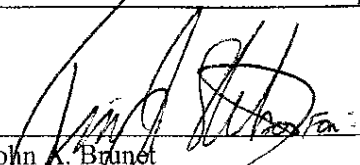
PHONE: **562 946-4511**

FAX: **562 941-4773**

### Calibration of Equipment Used:

EQUIPMENT:	CONTROL NUMBER:	CALIBRATION DATE:	CALIBRATION DUE:
Burn Chamber	02049	09-08-04	03-08-06
Gas Pressure Gauge	02049B	09-08-04	03-08-06
Digital Timer	02049E	09-08-04	03-08-06

This is to certify that the above tests were performed in accordance with the terms of the purchase order requirements.  
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\_\_\_\_\_  
John A. Brunet  
Director of Quality



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