

## TEST REPORT

REPORT NO.: HV-10-06778XA

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DATE: NOVEMBER 18, 2010

### PROWANG PLASTIC CO., LTD.

NO.55, FENGTIAN RD., DAPI SHIANG,  
YUNLIN COUNTY 63147, TAIWAN (R.O.C)

The following merchandise was submitted and identified by the vendor as:

Product Description : PVC Foam Sheet  
Style/Item No. : L-550、C-100  
Manufacturer/Vendor : PROWANG PLASTIC CO., LTD.  
Country of Origin : Taiwan

We have tested the submitted sample(s) as requested and the following results were obtained :

Test Required : (According to client's test specification, please see following sheets in detail.)

- (1) 20 mm Vertical Burning Test (V-0, V-1, or V-2)
- (2) Anti-flaming Test

Test Result :

-PLEASE SEE ATTACHED SHEETS-

Date of Receive : OCTOBER 21, 2010

Date of Testing : OCTOBER 21, 2010 ~ NOVEMBER 02, 2010

Signed for and on behalf of  
SGS Taiwan Ltd.

  
Given Chang  
Manager

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**(1)20 mm Vertical Burning Test (V-0, V-1, or V-2)**Test Equipment :

Name	Brand	Model
Horizon Vertical Flame Chamber	ATLAS	HVUL2

Test Method :

In compliance with UL94 (1996) Test for Flammability of Plastic Materials for Parts in Devices and Appliances

Conditioning :

Conditioning 1 : Specimens are to be preconditioned at  $23\pm 2^{\circ}\text{C}$  and  $50\pm 5\%$  percent relative humidity for 48 hours

Conditioning 2 : Specimens are to be preconditioned in an air-circulating oven for 168 hours at  $70\pm 1^{\circ}\text{C}$  and then cooled in the desiccator for at least 4 hours at room temperature

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Test Results :

**L-550**

Conditioning 1 : (Temperature: 23±2°C ; Relative humidity: 50±5% ; Time: 48 hours)

Criteria conditions	Specimen					Requirements		
	1	2	3	4	5	V-0	V-1	V-2
Thickness(mm)	12.84	12.85	12.79	12.78	12.80	-	-	-
Afterflame time for each individual specimen t1(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Afterflame time for each individual specimen t2(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Total afterflame time (Sec) (t1 plus t2 for the 5 specimens)	0					≤ 50 Sec	≤ 250 Sec	≤ 250 Sec
Afterflame plus afterglow time for each individual specimen after the second flame application(t2+t3) (Sec)	0	0	0	0	0	≤ 30 Sec	≤ 60 Sec	≤ 60 Sec
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No	No	No	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	No	No	No	No	No	Yes

Conditioning 2 : (Temperature: 70±1°C ; Time: 168 hours ; Cooled: 4 hours at room temperature)

Criteria conditions	Specimen					Requirements		
	1	2	3	4	5	V-0	V-1	V-2
Thickness(mm)	12.78	12.85	12.80	12.81	12.79	-	-	-
Afterflame time for each individual specimen t1(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Afterflame time for each individual specimen t2(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Total afterflame time (Sec) (t1 plus t2 for the 5 specimens)	0					≤ 50 Sec	≤ 250 Sec	≤ 250 Sec
Afterflame plus afterglow time for each individual specimen after the second flame application(t2+t3) (Sec)	0	0	0	0	0	≤ 30 Sec	≤ 60 Sec	≤ 60 Sec
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No	No	No	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	No	No	No	No	No	Yes

Conclusion :

The test results are compliant with the requirements of UL 94 V-0  
(20mm Vertical Burning Test)

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### C-100

Conditioning 1 : (Temperature: 23±2°C ; Relative humidity: 50±5% ; Time: 48 hours)

Criteria conditions	Specimen					Requirements		
	1	2	3	4	5	V-0	V-1	V-2
Thickness(mm)	12.11	12.08	12.17	12.20	12.05	-	-	-
Afterflame time for each individual specimen t1(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Afterflame time for each individual specimen t2(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Total afterflame time (Sec) (t1 plus t2 for the 5 specimens)	0					≤ 50 Sec	≤ 250 Sec	≤ 250 Sec
Afterflame plus afterglow time for each individual specimen after the second flame application(t2+t3) (Sec)	0	0	0	0	0	≤ 30 Sec	≤ 60 Sec	≤ 60 Sec
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No	No	No	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	No	No	No	No	No	Yes

Conditioning 2 : (Temperature: 70±1°C ; Time: 168 hours ; Cooled: 4 hours at room temperature)

Criteria conditions	Specimen					Requirements		
	1	2	3	4	5	V-0	V-1	V-2
Thickness(mm)	12.17	12.08	12.07	12.10	12.05	-	-	-
Afterflame time for each individual specimen t1(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Afterflame time for each individual specimen t2(Sec)	0	0	0	0	0	≤ 10 Sec	≤ 30 Sec	≤ 30 Sec
Total afterflame time (Sec) (t1 plus t2 for the 5 specimens)	0					≤ 50 Sec	≤ 250 Sec	≤ 250 Sec
Afterflame plus afterglow time for each individual specimen after the second flame application(t2+t3) (Sec)	0	0	0	0	0	≤ 30 Sec	≤ 60 Sec	≤ 60 Sec
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No	No	No	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	No	No	No	No	No	Yes

Conclusion : The test results are compliant with the requirements of UL 94 V-0 (20mm Vertical Burning Test)

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### (2)Anti-flaming Test

Test Equipment :

Name	Brand	Model
Meker's burner	-	-

Lab Environmental Conditions :

Ambient temperature: 23±2°C

Relative humidity: 65±5%RH

Test Method :

Refet to CNS 7614(1994) Method of Test for Flammability of Thin Materials (Method A)

Test Result :

#### L-550

Test Item	Test Result	Standard values of CNS 7614(1994) Anti-flaming Grade 1	Standard values of CNS 7614(1994) Anti-flaming Grade 2	Standard values of CNS 7614(1994) Anti-flaming Grade 3
Flames heating time(sec)	60	-	-	-
Remaining flame time(sec)	0.0	≤ 1	≤ 5	≤ 5
Embers time(sec)	0.0	≤ 60	≤ 60	≤ 60
Length of carbonization(cm)	12.2	≤ 5	≤ 10	≤ 15

Note : Sample thickness is 12.8mm °

#### L-550

Test Item	Test Result	Standard values of CNS 7614(1994) Anti-flaming Grade 1	Standard values of CNS 7614(1994) Anti-flaming Grade 2	Standard values of CNS 7614(1994) Anti-flaming Grade 3
Flames heating time(sec)	60	-	-	-
Remaining flame time(sec)	0.0	≤ 1	≤ 5	≤ 5
Embers time(sec)	0.0	≤ 60	≤ 60	≤ 60
Length of carbonization(cm)	12.0	≤ 5	≤ 10	≤ 15

Note : Sample thickness is 12.0mm °

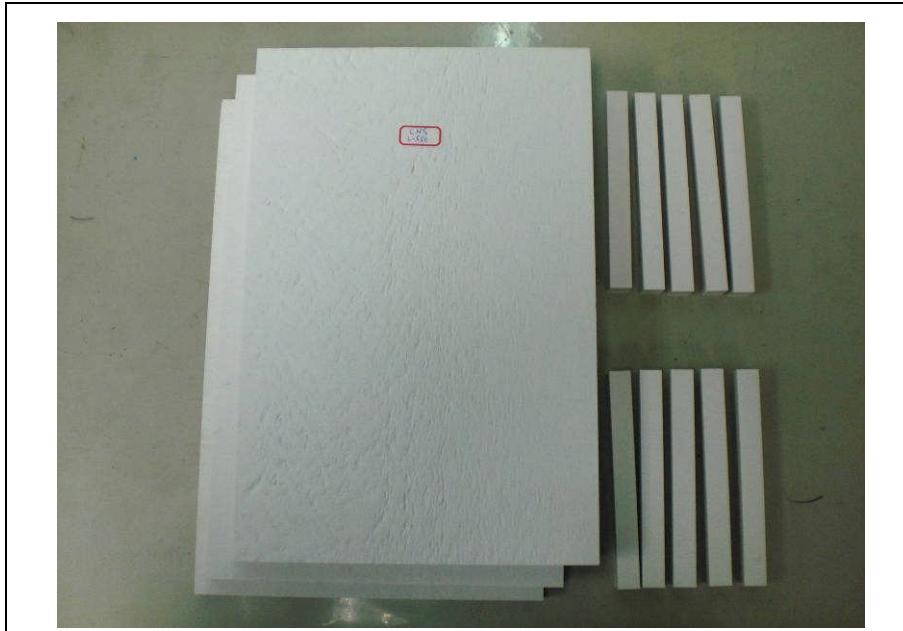
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Test Photo :



L-550



C-100

— The End of Test Report —