

# TEST REPORT

1. No : CT14-080161
2. Client :
  - Name : Hanwha L & C Corporation
  - Address : #86 Cheonggyecheon-ro, Jung-gu, Seoul, Korea
  - Date of Receipt : Jul 28, 2014
  - Date of Issued : Sep 11, 2014
3. Use of Report : Quality Control
4. Test Sample : BODAQ interior film
5. Method :
  - (1) KS F 2271:2006

|                      |
|----------------------|
| Reissuance (R1)      |
| Date : Sep. 11, 2014 |

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|  |                                 |                                  |
|--|---------------------------------|----------------------------------|
| Affirmation  | Tested By                       | Technical Manager                |
|  | Name : Kwon, In Koo <i>Kwon</i> | Name : Lee Sang Kwon <i>ofcm</i> |
| <small>Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.</small> |                                 |                                  |

Korea Conformity Laboratories President Song Jae Bin *Jae Bin Song*

Address : 363-883 73, Yangcheong 3-gil, Ochang-eup, Cheongwon-Gu, Cheongju-Si, Chungbuk, Korea 82-43-210-8990  
 Result Inquiry : Fire & Safety Evaluation Technology Center 82-43-210-8996



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## Test Results

| Items             |  | Results |       | Testing Methods |
|-------------------|--|---------|-------|-----------------|
|                   |  | No.1    | No.2  |                 |
| Gas toxicity test | Time to incapability of moving (min : s) | 12:39   | 14:27 | KS F 2271:2006  |

※ Description of specimen : BODAQ interior film, (10 mm)

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Test Results

■ Gas toxicity test result

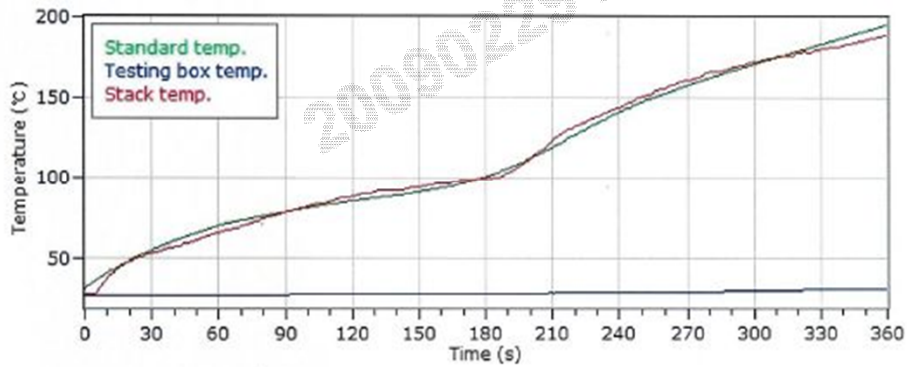
| Test No. of Mice | Stock | Sex    | Average weight (g) | Time to incapability of moving |
|------------------|-------|--------|--------------------|--------------------------------|
| No. 1            | ICR   | Female | 19                 | 12 min 39 s                    |
| No. 2            | ICR   | Female | 19                 | 14 min 27 s                    |

Test sample : Standard sample (Asbestos perlite)

<Gas temperature>

| Test No. of Mice | Stock | Sex   | Average weight (g) |
|------------------|-------|-------|--------------------|
| 0.0              | 30.0  | 27.8  | -2.2               |
| 60.0             | 70.0  | 65.1  | -4.9               |
| 120.0            | 85.0  | 87.7  | 2.7                |
| 180.0            | 100.0 | 98.7  | -1.3               |
| 240.0            | 140.0 | 142.6 | 2.6                |
| 300.0            | 170.0 | 171.6 | 1.6                |
| 360.0            | 195.0 | 188.6 | -6.4               |

<Gas temperature graph>



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# TEST REPORT

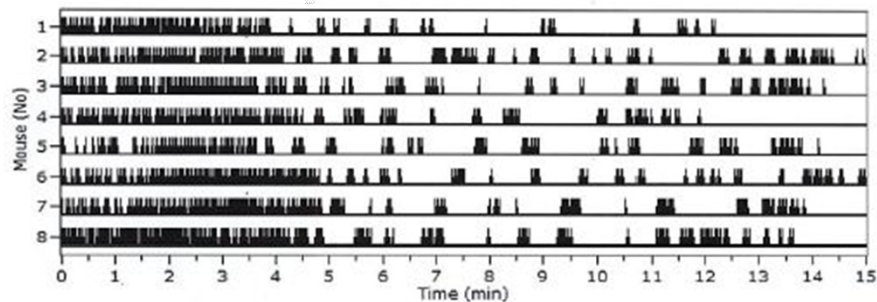
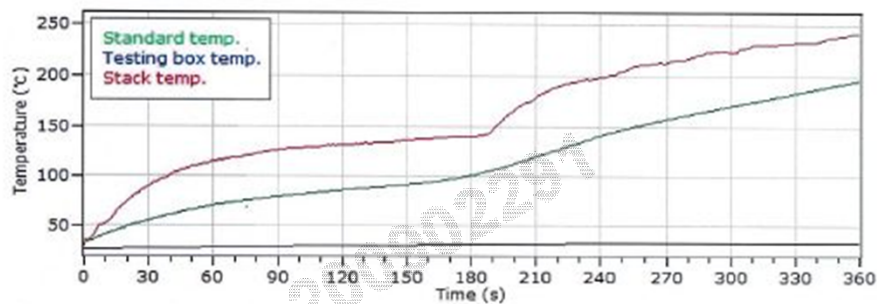
No : CT14-080161

Test Results

Test No : No. 1

| Time (s) | Box temp. (°C) | Gas temp. (°C) |
|----------|----------------|----------------|
| 0.0      | 25.8           | 33.8           |
| 60.0     | 28.1           | 113.2          |
| 120.0    | 29.6           | 130.9          |
| 180.0    | 30.6           | 139.5          |
| 240.0    | 31.6           | 197.5          |
| 300.0    | 32.2           | 222.5          |
| 360.0    | 32.6           | 241.0          |

| No. of mice        | Time to  |
|--------------------|----------|
| M1                 | 12min11s |
| M2                 | 14min58s |
| M3                 | 14min14s |
| M4                 | 11min54s |
| M5                 | 14min08s |
| M6                 | 14min59s |
| M7                 | 13min52s |
| M8                 | 13min39s |
| Average            | 13min44s |
| Standard deviation | 01min05s |



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# TEST REPORT

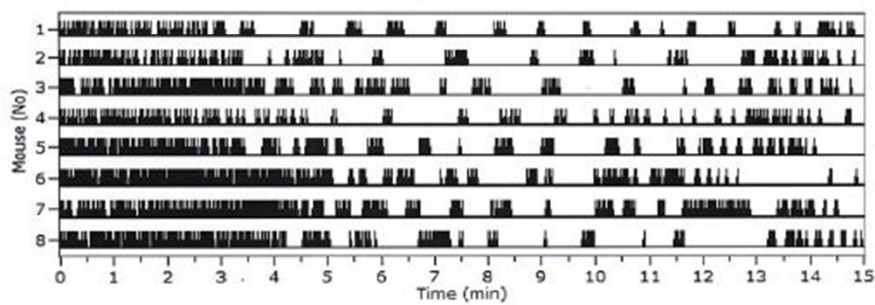
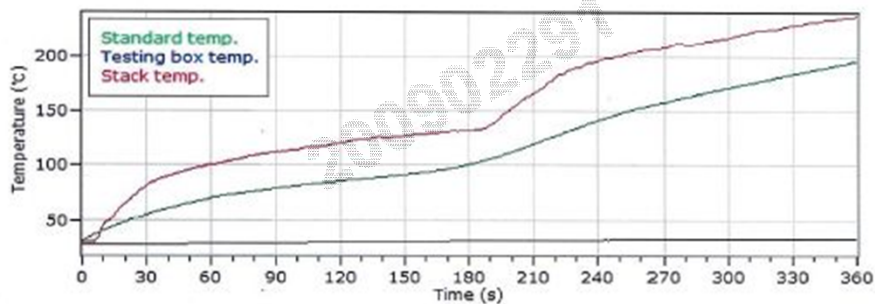
No : CT14-080161

Test Results

Test No : No. 2

| Time (s) | Box temp. (°C) | Gas temp. (°C) |
|----------|----------------|----------------|
| 0.0      | 27.8           | 31.1           |
| 60.0     | 29.0           | 99.7           |
| 120.0    | 30.2           | 119.7          |
| 180.0    | 31.3           | 131.2          |
| 240.0    | 32.0           | 194.7          |
| 300.0    | 32.6           | 216.4          |
| 360.0    | 33.0           | 236.7          |

| No. of mice        | Time to  |
|--------------------|----------|
| M1                 | 14min50s |
| M2                 | 14min51s |
| M3                 | 14min47s |
| M4                 | 14min46s |
| M5                 | 14min06s |
| M6                 | 14min53s |
| M7                 | 14min31s |
| M8                 | 14min58s |
| Average            | 14min43s |
| Standard deviation | 00min16s |
|                    | 14min27s |



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양식QP-20-01-06(2)