

**SIRIM QAS International Sdn. Bhd.**

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(Company No: 410334-X)

**TEST REPORT**

|  |                    |
|--|--------------------|
| <b>REPORT NO.:</b> 2011FE0124  | <b>PAGE 1 OF 3</b> |
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**Applicant/ Manufacturer :** **INSULFLEX CORPORATION SDN. BHD.**  
Lot 6 & 8, Jalan P/1,  
Kawasan Perusahaan Bangi,  
43650 Bandar Baru Bangi,  
Selangor Darul Ehsan,  
**(Attn: Mr. Peh Cheng Heng)**

**Product :** **CLOSED CELL RUBBER INSULATION MATERIALS**

**Reference Standard/ Method of Test :** BS 476 : Part 7: 1997  
Fire Test on Building Materials and Structures  
Part 7: Surface Spread of Flame Test.

**Description of test specimen :** 6 pieces of Closed Cell Rubber Insulation Materials.  
Size of Specimen : 270mm × 885mm × 6.1 mm (measured thickness)  
Brand : INSULFLEX  
Model : Class O Sheet  
Type : Sheet  
Nominal Thickness : 6 mm  
Nominal Density : 130 kg/m<sup>3</sup>  
Measured Density : 122 kg/m<sup>3</sup>

: The specimens were tested with one of the face side exposed to the specified heating condition of the fire test.

The test specimens were sampled by En. Mohamad Luthfi Zainuddin of Product Certification Section, SIRIM QAS International Sdn. Bhd. on 07.03.2011. The test was requested through PP2 Form Ref. No. LI009301 dated 11.03.2011.

**Date of test :** 21.04.2011

**Date received :** 04.04.2011

**Job No./ Ref No. :** J20111280083 / SQAS/FPS/15/1-6

**Test Result :** **Classification of Surface Spread of Flame : Class 1**

**Issued date :** 10 MAY 2011

.....  
**KAMARULZAMAN MAT ZIN**  
Testing Executive



.....  
**ZAINI AHMAD**  
Group Leader  
Fire Protection Section  
Testing Services Department  
SIRIM QAS International Sdn. Bhd.

## TEST REPORT

REPORT NO.: 2011FE0124

PAGE 2 OF 3

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**Name of Applicant** : INSULFLEX CORPORATION SDN. BHD.  
**Product** : CLOSED CELL RUBBER INSULATION MATERIALS  
**Brand** : INSULFLEX  
**Model** : Class O Sheet  
**Type** : Sheet  
**Nominal Thickness** : 6 mm  
**Measured Thickness** : 6.1 mm  
**Nominal Density** : 130 kg/m<sup>3</sup>  
**Measured Density** : 122 kg/m<sup>3</sup>  
**Date of Test** : 21.04.2011

### Requirement

The flame spread on any specimen of the sample shall not exceed the limit assigned for the class with the proviso that for one specimen only in the sample the flame spread may exceed this limit by the tolerance shown.

### Classification of Surface Spread of Flame

| Classification | Flame Spread at 1½ min |   | Final Flame Spread |   |
|----------------|------------------------|---|--------------------|---|
|                | Limit (mm)             | Tolerance for one specimen in sample (mm) | Limit (mm)         | Tolerance for one specimen in sample (mm) |
| Class 1        | 165                    | 25  | 165                | 25  |
| Class 2        | 215                    | 25  | 455                | 45  |
| Class 3        | 265                    | 25  | 710                | 75  |
| Class 4        | Exceeding Class        |   | 3 limits           |   |



10 MAY 2011

## TEST REPORT

|   |                           |
|---|---------------------------|
| <b>REPORT NO.:</b> 2011FE0124   | <b>PAGE</b> 3 <b>OF</b> 3 |
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### Test Results

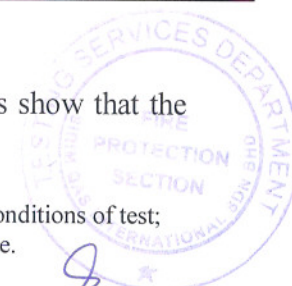
**Product** : CLOSED CELL RUBBER INSULATION MATERIALS  
**Brand** : INSULFLEX **Measured Thickness** : 6.1 mm  
**Model** : Class O Sheet **Nominal Density** : 130 kg/m<sup>3</sup>  
**Type** : Sheet **Measured Density** : 122 kg/m<sup>3</sup>  
**Nominal Thickness** : 6 mm **Date of Test** : 21.04.2011

| Specimen No.   | 1  | 2    | 3    | 4    | 5    | 6    |
|--|--|------|------|------|------|------|
| <b>Spread of flame at 1½ minutes (mm)</b>                  | 40   | 40   | 40   | 40   | 40   | 40   |
| <b>Distance (mm)</b>                                       | <b>Time of spread of flame to indicated distance ( minutes . seconds )</b> |      |      |      |      |      |
| 75   | -  | -    | -    | -    | -    | -    |
| 165  | -  | -    | -    | -    | -    | -    |
| 190  | -  | -    | -    | -    | -    | -    |
| 215  | -  | -    | -    | -    | -    | -    |
| 240  | -  | -    | -    | -    | -    | -    |
| 265  | -  | -    | -    | -    | -    | -    |
| 290  | -  | -    | -    | -    | -    | -    |
| 375  | -  | -    | -    | -    | -    | -    |
| 455  | -  | -    | -    | -    | -    | -    |
| 500  | -  | -    | -    | -    | -    | -    |
| 525  | -  | -    | -    | -    | -    | -    |
| 600  | -  | -    | -    | -    | -    | -    |
| 675  | -  | -    | -    | -    | -    | -    |
| 710  | -  | -    | -    | -    | -    | -    |
| 750  | -  | -    | -    | -    | -    | -    |
| 785  | -  | -    | -    | -    | -    | -    |
| 825  | -  | -    | -    | -    | -    | -    |
| 865  | -  | -    | -    | -    | -    | -    |
| <b>Time of maximum spread of flame (minutes . seconds)</b> | 1.00   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| <b>Distance of maximum spread of flame (mm)</b>            | 40   | 40   | 40   | 40   | 40   | 40   |

### Conclusion

In accordance with the class definition specified in the standard, the test results show that the sample tested has a Class **One** Surface Spread of Flame.

The test results relate only to the behavior of the test specimens of a product under the particular conditions of test; they are not intended to be sole criterion for assessing the potential fire hazard of the product in use.



  
 10 MAY 2011