

## TEST REPORT

REPORT NO.: **2006FE0096**

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Our Ref : SQAS / FET / 15 / 1 - 6

Issued by : **Fire Engineering Testing Section**

Issued date : **17 APR 2006**

Product : **CLOSED CELL NITRILE RUBBER INSULATION**

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

Applicant : **INSULFLEX SDN. BHD.**  
Lot 6 & 8, Jalan P/1,  
Kawasan Perusahaan Bangi,  
43650 Bandar Baru Bangi,  
Selangor Darul Ehsan.  
(Attn: Mr. Sim Chee Wah)


Description of sample : 6 pieces of Closed Cell Nitrile Rubber Insulation.  
Size of Specimen : 270mm × 885mm × 24.7mm (measured thickness)  
Brand : Insulflex  
Marking : Insulflex  
Density : 97 kg/m<sup>3</sup>

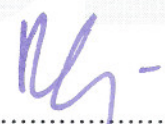
The specimens were tested with the face side exposed to the specified heating conditions of the fire test.

Date received : 29.03.2006

Job No. : J2006 506 0080



  
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**HISYAM HISHAMUDDIN**  
Technical Executive

  
.....  
**ROHAYA IBRAHIM**  
Senior Manager  
Fire Engineering Testing Section  
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SIRIM QAS International Sdn. Bhd.

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**Name of Applicant** : Insulfex Sdn. Bhd.  
**Product** : Closed Cell Nitrile Rubber Insulation  
**Brand** : Insulflex  
**Marking** : Insulflex  
**Measured Thickness** : 24.7mm  
**Density** : 97 kg/m<sup>3</sup>

## 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			



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### Test Results

**Product** : Closed Cell Nitrile Rubber Insulation      **Marking** : Insulflex  
**Brand** : Insulflex      **Density** : 97 kg/m<sup>3</sup>  
**Measured Thickness** : 24.7mm      **Date of Test** : 05.04.2006

Specimen No.	1	2	3	4	5	6
Spread of flame at 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance ( minutes . seconds )					
75	-	-	-	-	-	-
165	-	-	-	-	-	-
190	-	-	-	-	-	-
215	-	-	-	-	-	-
240	-	-	-	-	-	-
265	-	-	-	-	-	-
290	-	-	-	-	-	-
375	-	-	-	-	-	-
455	-	-	-	-	-	-
500	-	-	-	-	-	-
525	-	-	-	-	-	-
600	-	-	-	-	-	-
675	-	-	-	-	-	-
710	-	-	-	-	-	-
750	-	-	-	-	-	-
785	-	-	-	-	-	-
825	-	-	-	-	-	-
865	-	-	-	-	-	-
Time of maximum spread of flame (minutes . seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0

### 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 behaviour 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.



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17 APR 2006