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Client: Mehler Texnologies GmbH  
Edelzeller StraBe 44  
D-36043  
Germany

Job Title: **Fire Test on One Sample of Fabric**

Material Received: 25 November 2008

Sample Reference: **FR 650-2.**

Brief: Fire Technology Services were requested to carry out a fire test on the sample supplied to BS 7837.

UKAS Accreditation: Our Laboratories are UKAS accredited. However, it should be noted that tests marked \* are not UKAS accredited in this report. They are not included in the UKAS Accreditation Schedule for our laboratory, either due to the work not conforming fully to the standard (e.g. reduced number of specimens) or to it being outside the scope of our accreditation, or subcontracted.

Uncertainty: An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.



**FIRE  
TECHNOLOGY  
SERVICES**

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Mehler Technologies GmbH

## **FIRE TESTS ACCORDING TO BS 7837:1996**

**Specification for Flammability Performance for Textiles Used in the Construction of Marquees and Similar Tented Structures**

**Date of test: 22/12/2008**

### **Conditioning**

Prior to testing commencing the sample was water-soaked and then conditioned for 48 hours in an atmosphere having a temperature of  $20 \pm 2^{\circ}\text{C}$  and a relative humidity of  $65 \pm 5\%$ .

### **Procedure**

The test was carried out in accordance with the above standard. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard. Three length and three width specimens were tested.

Test 2B (bottom edge ignition) of BS 5438:1989 was used together with a flame application time of 10 seconds, as specified.

In addition, a piece of filter paper with specified characteristics was placed 55mm below the specimen to detect flaming debris.

The following parameters were measured :-

1. Duration of flaming
2. Extent of damage
3. Filter paper ignition, if applicable



**Performance**

The sample shall be deemed to perform satisfactorily (pass) if, for at least five of the six test specimens:

- (a) the duration of flaming does not exceed 5s after removal of the igniting flame; and
- (b) the lowest boundary of any flame does not reach the upper edge or either vertical edge; and
- (c) the filter paper does not smoulder or flame.

The sample shall be deemed not to conform to BS 7837:1996 if more than two test specimens show any of the effects listed in (a) to (c) above. If two test specimens show any of the above effects then a further six specimens shall be tested. In this case, the sample shall be deemed to pass if five of the second set of six specimens performs satisfactorily.

**Results**

| After Flame Time (secs.) |        | Edge reached (Yes or No) |        | Filter Paper Ignition (Yes or No) |        |
|--------------------------|--------|--------------------------|--------|-----------------------------------|--------|
| Width                    | Length | Width                    | Length | Width                             | Length |
| 2.8                      | 0      | No                       | No     | No                                | No     |
| 3.5                      | 0      | No                       | No     | No                                | No     |
| 2.0                      | 0      | No                       | No     | No                                | No     |

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

**Comments**

The results indicate that the sample met the above performance requirements.



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The information contained on page no's 1/4 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by FTS on the materials referred to.

Signed.....*B. Marsden*.....Date.....23 December 2008  
Mrs B Marsden  
Fire Technician

Reported By.....*P. Doherty*.....Date.....23 December 2008  
P Doherty  
Operational Head

