

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400

## TEST REPORT

**Client :** Theatre Star P/L  
3/10 Industry Circuit  
Kilsyth VIC 3137

**Test Number :** 21-005950  
**Issue Date :** 3/12/2021  
**Print Date :** 3/12/2021  
**Order Number :** 0307

**Sample Description** Clients Ref : "Applause"  
Knitted velveteen fabric  
Colour : Black  
End Use : Theatre Vurtains  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 360g/m2



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Fiona McDonald  
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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### AS 1530.2-1993

#### Methods for Fire Tests on Building Materials, Components and Structures.

##### Part 2: Test for Flammability of Materials

|                            |                                      |            |
|----------------------------|--------------------------------------|------------|
| Date Tested                | 21-02-2021                           |            |
| Flammability Index         | 3                                    |            |
|                            | Length                               | Width      |
| Spread Factor              | 0                                    | 2          |
| Heat Factor                | 1                                    | 1          |
| Maximum height (d)         |                                      |            |
| Mean                       | 3.1                                  | 3.8        |
| Coefficient of Variation   | 6.6                                  | 7.3 %      |
| Heat (a)                   |                                      |            |
| Mean                       | 1.5                                  | 1.5 °C.min |
| Coefficient of Variation   | 0.0                                  | 0.0 %      |
| Number of Specimens Tested | 6                                    | 6          |
| Observation                | Visible smoke, melting and dripping. |            |

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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## TEST REPORT

**Client :** Theatre Star P/L  
3/10 Industry Circuit  
Kilsyth VIC 3137

**Test Number :** 21-005951  
**Issue Date :** 2/12/2021  
**Print Date :** 9/12/2021  
**Order Number :** PO 0307

**Sample Description** Clients Ref : "Applause"  
Knitted velveteen fabric  
Colour : Black  
End Use : Theatre Curtains  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 360g/m2  
Nominal Thickness : Approx 0.5mm



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**Issue Date :** 2/12/2021  
**Print Date :** 9/12/2021  
**Order Number :** PO 0307

**AS/NZS 1530.3-1999**

**Methods for Fire Tests on Building Materials, Components and Structures**

**Part 3: Simultaneous Determination of Ignitability,  
Flame Propagation, Heat Release and Smoke Release**

|                              |                |        |                   |
|------------------------------|----------------|--------|-------------------|
| Face tested:                 | Face           |        |                   |
| Date tested:                 | 01-12-2021     |        |                   |
|                              | Standard Error | Mean   |                   |
| Ignition time                | Nil            | Nil    | min               |
| Flame propagation time       | Nil            | Nil    | sec               |
| Heat release integral        | -1.9188        | Nil    | kJ/m <sup>2</sup> |
| Smoke release, log d         | 0.0121         | 0.0108 |                   |
| Optical density, d           |                | 0.0121 | / metre           |
| Number of specimens ignited: |                | 0      |                   |
| Number of specimens tested:  |                | 6      |                   |
| Regulatory Indices:          |                |        |                   |
| Ignitability Index           |                | 0      | Range 0-20        |
| Spread of Flame Index        |                | 0      | Range 0-10        |
| Heat Evolved Index           |                | 0      | Range 0-10        |
| Smoke Developed Index        |                | 1      | Range 0-10        |

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These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

The reaction of thin unsupported flexible materials to flame impingement can be assessed in accordance with AS 1530.2. Where materials of thickness less than 2mm that are sufficiently flexible to be bent by hand around a mandrel of 2mm diameter or less are subjected to the test described herein, they should also be subjected to the test in AS 1530.2.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

The specimens melted and flowed away from the area of maximum heat during the test. Due to this phenomena it should be recognised that this test result may not be a true indication of the product's fire hazard properties.

The specimens were mounted to simulate use in an unsupported or free hanging mode. The results may be significantly different when mounted to simulate a wall cladding or upholstery application.

To allow free movement of sample during testing all corners were folded away from the clamps.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions, stapled through at four points, each 100mm from the centre of the sample and the assembly clamped in four places.

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