

# 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

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Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

**Client :** Paltech Corporation (Aust) Pty Ltd  
8 Kingston Park Court  
Knoxfield VIC 3180

**Test Number :** 18-000268  
**Issue Date :** 6/02/2018  
**Print Date :** 7/02/2018  
**Order Number :** 20563

**Sample Description** Clients Ref : "Palflex R1.5"  
Flexible ducting  
End Use : Insulated flexible duct  
Nominal Composition : Outer sleeve: clear and metalized PET, Insulation: Polyester Inner Core:  
clear and metalized PET, steel wire, Bostik Ductform Premium glue  
Nominal Mass per Unit Area/Density : 650g/m<sup>2</sup>  
Nominal Thickness : 80mm

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:           | Foil Face      |         |                   |
| Date tested:           | 06/02/2018     |         |                   |
|                        | Standard Error | Mean    |                   |
| Ignition time          | Nil            | Nil     | min               |
| Flame propagation time | Nil            | Nil     | sec               |
| Heat release integral  | Nil            | Nil     | kJ/m <sup>2</sup> |
| Smoke release, log d   | 0.0128         | -1.8724 |                   |
| Optical density, d     |                | 0.0134  | / 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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- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
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0204/11/06

APPROVED SIGNATORY

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

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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.

Since the heat source for this test is a radiator, a reduction in the reflective properties of certain materials by the deposition of dust and soot, by surface damage and by the formation of surface corrosion products, may produce a significant change in the index numbers from those obtained when the materials were tested in a new and clean condition.

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.

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 and the assembly clamped in four places.

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.

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