APL Applied Physics Laboratory
ACCREDITED LABORATORY NUMBER 206
International Accreditation New Zealand
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APL Quality and Service

All tests reported herein have been performed in accordance with the Laboratory's scope of accreditation

TEST REPORT

Reference Number 04007

EARLY FIRE HAZARD PROPERTIES OF LOOP TEXTILES *MISO/001* FABRIC

MATERIAL

LOOP TEXTILES *MISO/001* FABRIC being a woven fabric having a fibre blend specified as 32% rayon, 31% polyester, 21% linen and 16% acrylic, and with a nominal weight of 244 grams per square metre, is supplied by Loop Textiles, Arkitex Fabrics Pty Ltd, 98 Barcom Avenue, Rushcutters Bay, NSW 2011, Locked Bag 1100, Edgecliff, NSW 2027, AUSTRALIA.
The material was supplied by the client Loop Textiles, Arkitex Fabrics Pty Ltd as one piece, sufficient to cut the specimens for testing.
The colour tested was *Rice Paper*, a light yellow-gold shade.

TEST METHOD

Australian Standard 1530, Methods for fire tests on building materials, components and structures, AS 1530 Part 3, 1999, "Simultaneous determination of ignitability, flame propagation, heat release and smoke release."
The material was assigned the Laboratory Number 7048 and the tests were conducted on 2 January 2004.
The specimens were restrained between two layers of wire mesh having apertures 12 mm by 12 mm and wire 0.8 mm diameter and fixed to the support frames using a perimeter clamping ring.

RESULTS

The following results were obtained on six specimens tested.

Mean ignition time (seconds): 0

Mean flame propagation time (seconds): 0

Mean heat release integral (kJ/m^2): 0

Mean smoke release (Density/m): 0.12805
Mean smoke release ($Log_{10}D$): -0.89261 Standard error ($log_{10}D$): 0.00618

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International Accreditation New Zealand (IANZ) has a mutual recognition agreement with the National Association of Testing Authorities, Australia (NATA) such that both organisations recognise accreditations by IANZ and NATA as equivalent.
Users of test certificates are recommended to accept test certificates endorsed in the name of either accrediting body.

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From the results the following indices were determined:

IGNITABILITY INDEX (Range 0 - 20)	0
SPREAD OF FLAME INDEX (Range 0 - 10)	0
HEAT EVOLVED INDEX (Range 0 -10)	0
SMOKE DEVELOPED INDEX (Range 0 - 10)	4

Supplementary observations.
Under the conditions of exposure during the test the threads of material were converted to char filaments with release of smoke.

Statement from the Standard.
The results 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.

Statement from the Laboratory.
This statement appears on all of the Laboratory's test reports.
The Laboratory's experience is that the results of this fire test can be significantly modified by the detail of the specimens presented for testing.
The nature of substrate materials for example (where present) can significantly modify the test results.
The results reported apply to the material as described herein, and users of this test report are recommended to take particular note of the material description on page 1.

E. R. Weaver. ERWeaver

9 January 2004