

APL Applied Physics Laboratory

ACCREDITED LABORATORY NUMBER 206

International Accreditation New Zealand

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APL

Quality
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All tests reported
herein have been
performed in accordance
with the Laboratory's
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TEST REPORT

Reference Number 02064

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EARLY FIRE HAZARD PROPERTIES OF INTER-WEAVE Range No 5300 FABRIC

MATERIAL

INTER-WEAVE Range No 5300 FABRIC being a woven fabric with a fibre blend specified as 53% wool, 9% nylon, and 38% flax, with a total weight of 405 grams per square metre, is manufactured by Inter-Weave Limited, 112 Carbine Road, P O Box 62115, Mount Wellington, Auckland, NEW ZEALAND.

The material was supplied by the client Inter-Weave Limited as one piece, sufficient to cut the specimens for testing.

The colour tested was in a brown/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 5005 and the tests were conducted on 5 June 2002.

The specimens were restrained between two layers of wire mesh having apertures 12 mm by 12 mm and wire 0.8 mm thick, and fixed to the support frames using a perimeter clamping ring.

RESULTS

The following results were obtained on nine specimens tested.

Mean ignition time (seconds): 300.5 (2 specimens) Standard error: 1.5

Mean flame propagation time (seconds): 0 (9 specimens)

Mean heat release integral (kJ/m^2): 16.5 (2 specimens) Standard error: 9.5

Mean smoke release (Density/m)

For specimens that ignited: 0.21337 Standard error ($\log_{10}D$): 0.03759

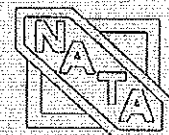
For specimens that did not ignite: 0.20672 Standard error ($\log_{10}D$): 0.00902

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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.

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INTER-WEAVE Range No 5300 FABRIC

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)	5

Supplementary observations:

Two of the nine specimens tested ignited. Because fewer than three specimens ignited the ignitability index is deemed to be zero, in accordance with Clause 3.2 of the Standard.

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 

6 June 2002



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