

# APL Applied Physics Laboratory

ACCREDITED LABORATORY NUMBER 206

International Accreditation New Zealand

E R (Ray) Weaver 24 Umere Crescent, Ellerslie, Auckland.

NEW ZEALAND.

Telephone/Fax 0-9-5793912.

APL

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

## TEST REPORT

Reference Number 02117

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### EARLY FIRE HAZARD PROPERTIES OF N Z WOOL INDULGE FABRIC

#### MATERIAL

N Z WOOL INDULGE FABRIC being a woven fabric with a fibre blend specified as 90% wool and 10% nylon, and with a total weight of 545 grams per square metre, is marketed by New Zealand Wool Furnishings Limited, 44 Douglas Street, Ponsonby, P O Box 47361, Auckland, NEW ZEALAND.

The material was supplied by the client New Zealand Wool Furnishings Limited as one piece, sufficient to cut the specimens for testing.  
The colour tested was a dark blue 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 5044 and the tests were conducted on 29 August 2002.

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<sup>2</sup>): 0

Mean smoke release (Density/m): 0.08803

Mean smoke release (log<sub>10</sub>D): -1.05537

Standard error (log<sub>10</sub>D): 0.01813

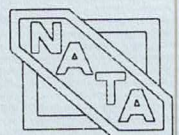
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NZ WOOL *INDULGE* FABRIC.

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)	4

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.

29 August 2002



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