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 Quality and Service

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

TEST REPORT

EARLY FIRE HAZARD PROPERTIES OF *FIESTA* FABRIC

MATERIAL
FIESTA FABRIC being a woven 100% polyester fibre fabric, with a weight of 300 grams per square metre

The material was supplied as one piece, sufficient to cut the specimens for testing.
The colour tested was *Aubergine.*

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 8016 and the tests were conducted on 10 August 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): 0.11602

Mean smoke release (Log_{10}): -0.93544 Standard error ($log_{10}D$): 0.04456

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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 test exposure conditions of impressed radiant heat in the presence of a pilot flame source of ignition the material blackened, ruptured, and adhered to the wire mesh restraint, where it released smoke and converted to a char.

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.

10 August 2004