Att MS Elizabeth Mackowiak
m/s Godfrey Hirst Australia Pty Ltd,
P.O. Box 93, South Geelong Vic 3220

TEST REPORT No. 104126O

LABORATORY REF: P104126O

CUSTOMER REFERENCE

RAINBOW

Sample description as provided by customer

Order No. **APLC**

Mass/unit area **22** oz/yd² **/** g/m² Pile Fibre Content **100% NYLON**

Construction Details **Tufted** Secondary Backing **BITUMEN**

Colour **Blue/Pink**

Style **LOOP PILE**

Pile Height **3** mm

THE SAMPLES TESTED WERE MODULAR CARPET

TEST METHOD AS/ISO 9239.1 2003 Reaction To Fire Tests For Floorings Part 1 Determination of the Burning Behaviour Using a Radiant Heat Source. *As required by specification C1.10a of the Building Code of Australia.*

Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.

The test values relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **17/6/2010** Test Date **8/7/2010**

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using GHM GS 444 adhesive.

Substrate : Non-combustible
Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.
Sample Cleaned as Specified in ISO 11379.1997. The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **9.5** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **8.5** kW/m²
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m²)	8.5	8.1	7.5	8.0
Smoke Development Rate (%.min)	253	292	239	261

The values quoted below are as required by Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).

MEAN CRITICAL RADIANT FLUX 8.0 kW/m²

MEAN SMOKE DEVELOPMENT RATE 261 percent-minutes

OBSERVATIONS **The samples shrunk away from the heat source ,ignited , then burnt a short distance.**

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 8/7/2010

Measurement Science & Technology No. 15393
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PAGE 1 of 2

This Page (1) has been designed to show the values required under Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

The values on Page 2 have no relevance to the Code.

1004 04 09

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TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS

Specimen	50	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860
1	157	159	228	413	537	/												
2	220	221	328	391	488	579	/											
3	185	186	228	383	456	605	/											

TESTS

Specimen	SMOKE PRODUCTION: Maximum Light Attenuation (%)	SMOKE PRODUCTION: Smoke Development Rate (%.min)	BURNING CHARACTERISTICS: Burn Length (mm) at Flame Out/ Extinguishment	BURNING CHARACTERISTICS: Time To Burn Out (s)
Initial Test: **Length** (10070033)	**41**	**171**	**190**	**945**
Specimen Tests: **Width**				
1 (10070034)	61	253	240	1,860
2 (10070035)	72	292	260	965
3 (10070039)	63	239	290	775
Mean	65	261	263	1,200

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The laboratory does not allow the use of this page of the report without the use of page 1.
This page alone has no validity under specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.
2004 04 09 5579 6 February 2012

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