

CUSTOMER REFERENCE
PHYSICS 13

Sample description as provided by customer

Mass/unit area **22 oz/yd²**
Construction Details **Tufted** Secondary Backing **TILE ENVIRO BAC™**
Style **High and Low Loop**
The Samples Tested Were **Modular Carpet Backing ENVIRO BAC™**

Order No. **APL 3H**
Pile Fibre Content **100% NYLON**
Colour **#4900**
Pile Height **3.5 mm**

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 **March 2012** Test Date **11 Apr 2012**

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using **GHM G3 444 adhesive**.

Substrate: Non-Combustible

Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.

The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **4.5 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **5.0 kW/m²**
Full tests carried out in the **Length** Direction


SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m ²)	4.5	4.6	4.4	4.5
Smoke Development Rate (%.min)	542	546	466	518

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 4.5 kW/m²

MEAN SMOKE DEVELOPMENT RATE 518 percent-minutes


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



M. B. Webb
Technical Manager

DATE: 11 Apr 2012

Measurement Science & Technology No. 15393
Accredited for compliance with ISO/IEC 17025.



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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.

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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	233	236	332	406	459	558	708	1004	1418	/								
2	213	217	324	389	433	519	683	871	/									
3	232	235	318	393	465	571	856	1150	1546	/								

TESTS

SMOKE PRODUCTION


BURNING CHARACTERISTICS

Specimen	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: Width	76	587	400	1,438
Specimen Tests: Length				
1	78	542	430	2,116
2	76	546	425	1,520
3	73	466	440	2,127
Mean	76	518	432	1,921



NATA

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COMPETENCE**



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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.
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