

CUSTOMER REFERENCE  
**PROCESSOR 11**

**Sample description as provided by customer**

Mass/unit area **680 g/m<sup>2</sup>**  
Construction Details **Tufted** Secondary Backing **Synthetic**  
Style **Patterned Loop**  
**The Samples Secondary Backing was ACTION BAC**

Order No. **APL IC**  
Pile Fibre Content **100% SOLUTION DYED NYLON**  
Colour **\*99**  
Pile Height **3.8 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 **26 Jan 2012**

Test Date **17 Feb 2012**

## ASSEMBLY SYSTEM: OVER UNDERLAY AIRSTEP BLACK RUBBER.

The UNDERLAY used was **AIRSTEP BLACK RUBBER.**

**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 **2.1 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **3.3 kW/m<sup>2</sup>**  
Full tests carried out in the **Length** Direction


SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	<b>2.1</b>	<b>2.1</b>	<b>2.9</b>	<b>2.4</b>
Smoke Development Rate (%.min)	<b>300</b>	<b>306</b>	<b>296</b>	<b>301</b>

*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 2.4 kW/m<sup>2</sup>**

**MEAN SMOKE DEVELOPMENT RATE 301 percent-minutes**


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



**M. B. Webb**  
Technical Manager

DATE: 17 Feb 2012

Measurement Science & Technology No. 15393  
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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	162	163	188	232	262	306	337	363	487	653	1289	2028	3082	/				
2	147	148	195	241	286	303	341	393	494	681	1144	1838	2713	/				
3	158	159	204	260	283	303	352	523	525	856	1414	/						

**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: <b>Width</b>	66	256	510	1,765
Specimen Tests: <b>Length</b>				
1	67	300	640	3,469
2	71	306	645	3,448
3	66	296	550	2,056
<b>Mean</b>	68	301	612	2,991



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**TECHNICAL  
 COMPETENCE**



**M. B. Webb**  
 Technical Manager

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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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