

CUSTOMER REFERENCE

EMPIRE

Sample description as provided by customer

Mass/unit area **550 g/m²**

Order No. **YP**
Pile Fibre Content **100% SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Synthetic**

Colour **Charcoal**

Style **Multi Level Loop**

Pile Height / mm

The Samples Tested Were Modular Carpet **BACKING PVC with RECYCLED CONTENT**

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.

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. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Aug 2017**

Test Date **31/Aug 2017**

ASSEMBLY SYSTEM: DIRECT STICK Water Based Surface Contact Adhesive.

The floor covering was directly stuck to the substrate using **Water Based Surface Contact 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 **5.3 kW/m²**

Specimen 1 Width Direction Critical Radiant Flux **4.8 kW/m²**

Full tests carried out in the **Width** Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	4.8	4.8	5.0	4.9
Smoke Development Rate (%.min)	200	195	187	194

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 4.9 kW/m²

MEAN SMOKE DEVELOPMENT RATE 194 percent-minutes

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



M. B. Webb
Technical Manager

DATE:
31/Aug/2017



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**TECHNICAL
COMPETENCE** 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	159	161	210	228	251	295	371	407	512	737	951	1375	1770	2173	2799	3436		
2	184	186	238	265	289	326	374	426	508	641	883	1165	1694	2149	2466	2931		
3	138	140	208	231	265	289	354	419	529	542	603	1249	1693	2284	2650			

TESTS

BURNING CHARACTERISTICS

SMOKE PRODUCTION

Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)
Initial Test: Length	736	2,985	80	547
Specimen Tests: Width				
1	760	3,438	81	537
2	780	3,240	76	558
3	758	3,158	79	551
Mean	766	3,279	79	549



M. B. Webb
Technical Manager

DATE: 31/8/2017

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The laboratory does not allow the use of this page of the report without the use of page 1.
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