m/s EC Group
4-9 Delaine Ave Edwardstown S A 5069
Attn: Mr Ken Grace

TEST REPORT No. 158645
LABORATORY REF: P158645

CUSTOMER REFERENCE

SOLUTION DYED NYLON LOOP 32oz/yd²

Sample description as provided by customer
Order No. **KG**
Mass/unit area **32** oz/yd²
Pile Fibre Content **100% SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **Synthetic**
Colour **Brown Shades**
Style **Multi Level Loop**
Pile Height **/** 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 C1.10 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 **Feb 2015** Test Date **28 Feb 2015**

ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using ROBERTS 95 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 **4.7** kW/m²
Specimen 1 Width Direction Critical Radiant Flux **4.1** kW/m²
Full tests carried out in the **Width** Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m²)	4.1	3.9	4.1	4.0
Smoke Development Rate (%.min)	252	204	177	211

The values quoted below are as required by Specification C1.10 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 4.0 kW/m²

MEAN SMOKE DEVELOPMENT RATE 211 percent-minutes

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

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb
Technical Manager

DATE: 28 Feb 2015

Performance & Approvals
Testing No. 15393
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Clause 9 of AS/ISO 9239 Part 1

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	315	317	438	530	746	891	1059	1208	1735	/								
2	268	270	443	630	694	781	988	1130	1422	1768	/							
3	264	265	329	386	590	1096	1124	1273	1382	/								

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**	420	1,921	24	180
Specimen Tests: **Width**				
1	450	2,252	28	252
2	460	1,769	25	204
3	450	2,218	18	177
Mean	453	2,080	24	211

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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 Clause 9 of AS/ISO 9239 Part 1
2004 04 09 22342 28 January 2015