

CUSTOMER REFERENCE

## MOHAWK DURACOLOR® 18oz Textured Loop NXT AIR

Sample description as provided by customer  
 Mass/unit area 18 oz/yd<sup>2</sup>  
 Construction Details Tufted Secondary Backing NXT AIR  
 Style Textured Loop  
 The Samples Tested Were Modular Carpet with NXT air Backing

Order No. MW  
 Pile Fibre Content 100% NYLON  
 Colour Grey  
 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 Jan 2016

Test Date 03 Feb 2016

### ASSEMBLY SYSTEM: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using 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 9.0 kW/m<sup>2</sup>  
 Specimen 1 Width Direction Critical Radiant Flux 8.8 kW/m<sup>2</sup>  
 Full tests carried out in the Width Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	8.8	9.0	4.1	7.3
Smoke Development Rate (%.min)	137	125	180	147

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

**MEAN SMOKE DEVELOPMENT RATE 147 percent-minutes**


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



**M. B. Webb**  
 Technical Manager

DATE: 03 Feb 2016

Performance & Approvals  
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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	272	273	308	383	438	/												
2	232	234	256	352	437	/												
3	210	211	285	337	374	454	606	805	1096	/								

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: <b>Length</b>		210	882	41	129
Specimen Tests: <b>Width</b>					
1		220	910	39	137
2		210	835	44	125
3		450	1,482	43	180
<b>Mean</b>		293	1,076	42	147



ACCREDITED FOR  
**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 Clause 9 of AS/ISO 9239 Part 1

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