**MS Sue Schultz**
**m/s Beaulieu of Australia**
**64 Lahrs Rd, Ormeau Q/ld 4208**

**TEST REPORT No. 0070994**

LABORATORY REF: **P070994**

CUSTOMER REFERENCE

# LIBERATION

Sample description as provided by customer

Order No. **10249**

Mass/unit area **24** oz/yd² g/m² Pile Fibre Content **100% Resistain Solution Dyed Nylon**

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

Colour **Dynasty**

Style **Level Loop**

Pile Height **4** 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 results 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 **December 2006** Test Date **6/3/2007**

## ASSEMBLY SYSTEM OVER UNDERLAY details below.

The UNDERLAY used was EXCELAY

Substrate : Non-combustible
Substrate – 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.
Sample Cleaned as Specified in ISO 11379.1997

Initial Test Specimen 1 Length Direction Critical Radiant Flux 1.3 kW/m²
Specimen 1 Width Direction Critical Radiant Flux 1.2 kW/m²
Full tests carried out in the **Width** Direction

| SPECIMEN | Width #1 | Width #2 | Width #3 | Mean |
|---|---|---|---|---|
| Critical Radiant Flux (kW/m²) | 1.2 | 1.2 | 1.2 | 1.2 |
| Smoke Development Rate (%.min) | 345 | 195 | 319 | 286 |

*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.*

## MEAN CRITICAL RADIANT FLUX 1.2 kW/m²

## MEAN SMOKE DEVELOPMENT RATE 286 %.min

OBSERVATIONS **The samples melted away from the heat source then ignited**

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Authorised Signatory **M. B. Webb**
Date **6/3/2007**

NATA Reg. No. 15393
Heat and temperature measurement.

**PAGE 1 of 2**
Page 2 only shows the time required in seconds for the flame front to reach each time marker, the total test time and the CHF value at 30 minutes (if applicable).
*The laboratory allows the use of this page of the report without the use of page 2.*

1001 01 06

**APL Australia Pty Ltd**
5 Carinish Rd, Oakleigh South
Victoria 3167 Australia

Telephone: 03 9543 1618
Facsimile: 03 9562 1818
Mobile: 0411 039 088

Email: apl@aplaustralia.com.au
Web: www.aplaustralia.com.au
ABN 69 468 849 319

**TEST REPORT No. 70994**
**LABORATORY REF: P070994**

THE INFORMATION PROVIDED ON THIS PAGE OF THE TEST REPORT IS FOR THE SPONSORS USE ONLY AND WILL MEET THE REQUIREMENTS OF THE STANDARD. IT IS NOT REQUIRED UNDER CLAUSE C1.10A OF THE BUILDING CODE OF AUSTRALIA



| Pyrometer temperature | |
|---|---|
| On calibration | 535.9°C |
| Start of test run | 533.8 |
| End of test run | 539.3 |

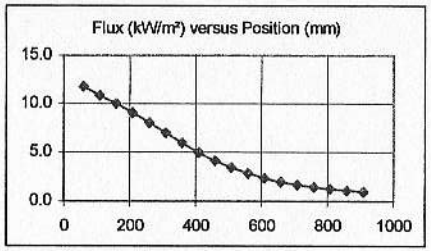
| Chamber temperature | |
|---|---|
| On calibration | 96.6°C |
| Start of test run | 86.9 |
| End of test run | 93.3 |

Clause 7.2.2 AS/ISO 9239 The pyrometer should be ± 5° of calibration temperature.
The Chamber temperature should be ±10° of calibration temperature
The Holding Tension on Specimen Frame was 1 Nm

**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 | 160 | 164 | 205 | 249 | 284 | 298 | 325 | 381 | 429 | 744 | 935 | 1259 | 1892 | 2237 | 2447 | 2871 | 3584 | |
| 2 | 158 | 165 | 198 | 223 | 274 | 301 | 325 | 389 | 421 | 693 | 895 | 1250 | 1887 | 2359 | 2673 | 3228 | 3682 | |
| 3 | 159 | 179 | 201 | 219 | 273 | 318 | 339 | 392 | 419 | 699 | 908 | 1186 | 1903 | 2347 | 2584 | 3097 | 3596 | |

**FLUX CALIBRATION: FLX07001**




**TESTS** — **SMOKE PRODUCTION** — **BURNING CHARACTERISTICS**

| Specimen | Maximum Light Attenuation (%) | Smoke Development Rate (%.min) | Burn Length at Flame Out (mm) | Time To Burn Out (s) | Critical Heat Flux at 30min (kW/m²) |
|---|---|---|---|---|---|
| Initial Test: **Length** | **59** | **251** | **795** | **4,053** | 2.4 |
| Specimen Tests: **Width** | | | | | |
| 1 | 60 | 345 | 830 | 3,967 | 2.3 |
| 2 | 80 | 195 | 820 | 4,077 | 2.4 |
| 3 | 85 | 319 | 822 | 3,942 | 2.4 |
| Mean | 75 | 286 | 824 | 3,995 | 2.4 |

NATA
ACCREDITED FOR
TECHNICAL
COMPETENCE

NATA Reg. No. 15393
Heat and temperature measurement.

Authorised Signatory
**M B Webb**
Date **6/3/2007**

**PAGE 2 of 2**
*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.

2001 01 06 37585

**APL Australia Pty Ltd**
5 Carinish Rd, Oakleigh South
Victoria 3167 Australia

Telephone: 03 9543 1618
Facsimile: 03 9562 1818
Mobile: 0411 039 088

Email: apl@aplaustralia.com.au
Web: www.aplaustralia.com.au
ABN 69 468 849 319