



## TEST REPORT

**Client:** Gabriel  
 Hjulmagervej 55  
 Postbox 59  
 DK-9100 Aalborg, Denmark

**Entry No:** 82186-01

**Date received:** 03/01/2017

**Client's Description:** Sample of fabric: Dragon / 60999 Black

**Test Required:** Abrasion in accordance with BS EN 14465 and Colour Fastness to Water Spotting<sup>S</sup>

**Conditioning:** In accordance with BS EN ISO 139: 2005 for a minimum of 24 hours at 65+/-4%, Relative Humidity, 20+/-2°C

**Date Tests Completed:** 19/01/2017

**Abrasion Resistance:** BS EN ISO 12947-2: 1998

The tests were carried out using a pressure of 12 +/- 0.3 kPa  
 The criterion for judging end point was hole formation

|                       |                     |
|-----------------------|---------------------|
| Specimen 1            | 110,000 rubs        |
| Specimen 2            | 110,000 rubs        |
| Specimen 3            | 110,000 rubs        |
| Specimen 4            | 110,000 rubs        |
| <b>Overall Result</b> | <b>110,000 rubs</b> |

Change in colour after 3,000 rubs: **5**

Observation Technique: 10 fold magnification  
 Type of Fabric: Knitted

**Colour Fastness to Water Spotting:** BS EN ISO 105-E16:2007<sup>S</sup>

|                                 | <u>Grade</u> |
|---------------------------------|--------------|
| Inner circle of tested area :   | <b>5</b>     |
| Outer periphery of tested area: | <b>5</b>     |
| Change in appearance            | <b>none</b>  |

-----End of Document-----

*This is hereby certified to be a correct return of the tests made of the items referred to herein*



Vivienne Brockbank  
 Technician  
 27 January 2017

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
  - ❖ Tests marked <sup>N</sup> in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
  - ❖ Tests marked <sup>F</sup> in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
  - ❖ Tests marked <sup>S</sup> in this certificate have been subcontracted to another ISO17025 Accredited Laboratory.
  - ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
  - ❖ Uncertainty budgets for test methods contained within this report are available on request.
- This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



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