

**TEST REPORT**

**Client:** PG Products  
1 Folgate Road  
Lymgate Ind est  
North Walsham  
NR28 OAJ

**Entry No:** 91573

**Date received:** 20/10/2017

**Client's Description:** Black knitted Fabric + Hood samples

**Test Required:** BS EN 13911:2017 Protective clothing for firefighters \_ requirements and test methods for fire hoods for firefighters  
Clause 6.1.2 Flamespread<sup>F</sup>  
Clause 6.1.4 Heat transfer (radiation)  
Clause 6.1.5 Residual strength of material when exposed to radiant heat  
Clause 6.1.7 Seam burst strength  
Clause 6.1.8 Dimensional change

**Pre-treatment:** Tests in clauses 6.1.5, 6.1.7 and 6.1.8 were made after 5 washing cycles in accordance with ISO 6330: 2012 Procedure 3N at 430°C Drying Procedure C. The Flat drying was carried out after the completion of each wash  
Test in clauses 6.1.2, and 6.1.4 were made as received

**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:** 11/12/2017

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

Natalie Teal  
Technologist  
13 December 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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| Clause   | Test Method  | BS EN 13911:2017 requirement  | Results   |                           |                            | Pass/Fail |
|--|--|---|---|---------------------------|----------------------------|-----------|
| 6.1.2 flame spread   | EN ISO 15025:2016 <sup>F</sup>   | Index 3 of EN ISO 14116:2015 shall be achieved<br>No flaming to top or side edge<br>No hole formation 5 mm or greater in any direction<br>No flaming or molten debris<br>Afterflame ≤ 2s<br>Afterglow ≤ 2s  | As received on fabric<br>No flaming to top or side edge<br>No hole formation<br>No flaming or molten debris<br>No afterflame<br>No afterglow  |                           |                            | PASS      |
| 6.1.2 flame spread   | EN ISO 15025:2016 <sup>F</sup>   | Index 3 of EN ISO 14116:2015 shall be achieved<br>No flaming to top or side edge<br>No hole formation 5 mm or greater in any direction<br>No flaming or molten debris<br>Afterflame ≤ 2s<br>Afterglow ≤ 2s<br>specimen shall not separate at the seam | As received on seam<br>No flaming to top or side edge<br>No hole formation<br>No flaming or molten debris<br>No afterflame<br>No afterglow<br>specimen did not separate at the seam |                           |                            | PASS      |
| 6.1.4 Heat transfer (radiation)                                  | EN ISO 6942, method B heat flux density of 20kW/m <sup>2</sup>                             | RHTI <sub>24</sub> ≥ 11s<br>RHTI <sub>24</sub> – RHTI <sub>12</sub> ≥ 3s  | Sample 1  | RHTI <sub>12</sub><br>8.8 | RHTI <sub>24</sub><br>17.2 | PASS      |
|  |  |   | Sample 2  | 8.7                       | 17.1                       |           |
|  |  |   | Sample 3  | 8.8                       | 17.3                       |           |
|  |  |   | RHTI <sub>24</sub> – RHTI <sub>12</sub> = 8.4   |                           |                            |           |
| 6.1.5 Residual strength of material when exposed to radiant heat | Pre-treatment<br>EN ISO 6942, Method A heat flux 10kW/m <sup>2</sup><br><br>EN ISO 13938-1 | Burst strength of ≥ 200kPa  | Sample 1 1342kPa<br>Sample 2 1355kPa  |                           |                            | PASS      |
| 6.1.7 Seam burst strength  | EN ISO 13938-1:1999  | ≥ 450kPa  | Maximum pressure of machine reached<br>Result above 1500 kPa<br><br>Fabric burst next to seam   |                           |                            | PASS      |
| 6.1.8 Dimensional change   | EN ISO 5077:2008   | Dimensional change ≤ 5%   | Warp dimensional change -5.0%<br>Weft dimensional change +0.5%  |                           |                            | PASS      |

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