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# VIPEQ CANADA
# TEST REPORT

**SCOPE OF WORK**
ULC-S135:1992, *STANDARD TEST METHOD FOR THE DETERMINATION OF COMBUSTIBILITY PARAMETERS OF BUILDING MATERIALS USING AN OXYGEN CONSUMPTION CALORIMETER (CONE CALORIMETER)* ON *CORKSHEILD*

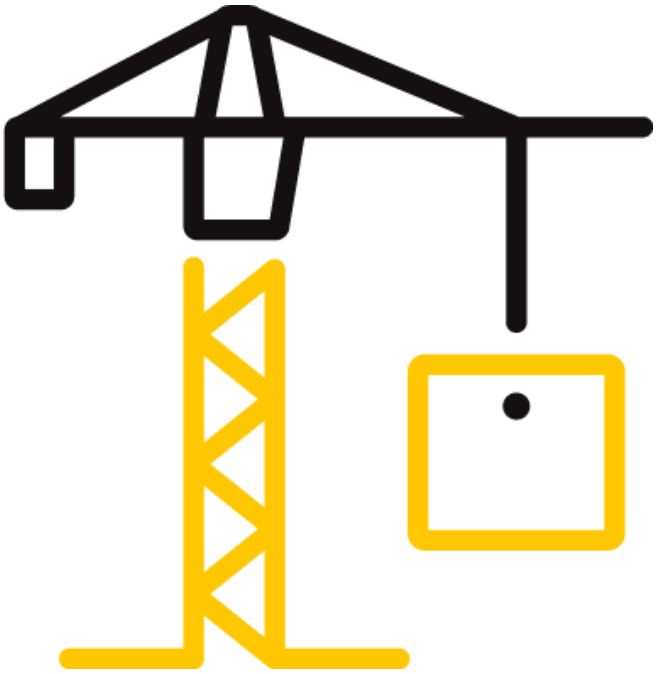
**REPORT NUMBER**
103749915MID-001

**TEST DATE(S)**
01/08/19

**ISSUE DATE** **[REVISED DATE]**
01/08/19 NA

**PAGES**
126

**DOCUMENT CONTROL NUMBER**
GFT-OP-10c (AUGUST 27, 2018)

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**TEST REPORT FOR VIPEQ**
Report No.: 103749915MID-001
Date: 01/08/19

**REPORT ISSUED TO**
**VIPEQ CANADA**
7301 E Danbro Crescent
Mississauga, ON L5N 6P8
Canada

## SECTION 1
## SCOPE

Intertek Building & Construction (B&C) was contracted by Vipeq Canada to perform testing in accordance with ULC S135, *Standard Test Method for the Determination of Combustibility Parameters of Building Materials Using an Oxygen Consumption Calorimeter (Cone Calorimeter),* on Painted Plywood with Metal. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek test facility in Middleton, WI.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

For INTERTEK B&C:

| | | | |
|---|---|---|---|
| **COMPLETED BY:** | Bryan Bowman | **REVIEWED BY:** | Mark Crawford |
| **TITLE:** | Chemist | **TITLE:** | Engineering Team Lead |
| **SIGNATURE:** |  | **SIGNATURE:** |  |
| **DATE:** | 01/08/19 | **DATE:** | 01/08/19 |

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## SECTION 2
## TEST METHOD(S)

The specimens were evaluated in accordance with the following:

**ULC-S135:1992,** *Standard Test Method for the Determination of Combustibility Parameters of Building Materials Using an Oxygen Consumption Calorimeter (Cone Calorimeter)*

## SECTION 3
## MATERIAL SOURCE

The specimens were provided by the client. Samples were received at the Evaluation Center on December 19, 2018 in good condition. Sample ID is MID1812191254-001

## SECTION 4
## EQUIPMENT

| EQUIPMENT | | | |
|---|---|---|---|
| DESCRIPTION - ASSET #: | Cone Calorimeter - 1199 | CALIBRATION DUE: | VBU |
| DESCRIPTION - ASSET #: | Scale - 1482 | CALIBRATION DUE: | 4/4/2019 |
| DESCRIPTION - ASSET #: | Flow Meter - 1270 | CALIBRATION DUE: | 11/11/2019 |
| DESCRIPTION - ASSET #: | Heat Flux Transducer - 1405 | CALIBRATION DUE: | 10/8/2019 |
| DESCRIPTION - ASSET #: | Balance - 1396 | CALIBRATION DUE: | 4/4/2019 |
| DESCRIPTION - ASSET #: | Caliper - 1248 | CALIBRATION DUE: | 4/3/2019 |
| DESCRIPTION - ASSET #: | Room Temp/Humidity - 1456 | CALIBRATION DUE: | 3/28/2019 |
| DESCRIPTION - ASSET #: | Conditioning Chamber - 1451 | CALIBRATION DUE: | 12/4/2019 |

## SECTION 5
## TEST PROCEDURE

The cone calorimeter test was run as written in ULC S135 section 8 – Procedure.

## SECTION 6
## TEST CALCULATIONS

The cone calorimeter calculations were performed as written in ULC S135 section 10 – Calculations.

## SECTION 7
## TEST SPECIMEN DESCRIPTION

The samples were prepared and cut by the client into 100 x 100 mm samples. The samples are a tan colored rough surface coated on an inflammable substrate. Specimens were conditioned to moisture equilibrium (constant mass) at an ambient temperature of 23 ± 3°C and a relative humidity of 50 ± 5%.

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## SECTION 8

## TEST RESULTS

**Specimen information**

| | | | | | |
|---|---|---|---|---|---|
| E | 13.1 MJ/kg | Specimen number | 1 | Conditioned? | Yes |
| Thickness | 12 mm | Nominal duct flow rate | 24 l/s | Temperature | 23°C |
| Initial mass | 100.32 g | Edge frame used? | Yes | RH | 50% |
| Surface area | 88.4 cm² | Grid used? | No | | |
| Heat flux | 50 kW/m² | Fixed to substrate? | Yes | | |
| Separation | 25 mm | Substrate | 0.5 inch Ca Silicate | | |
| Orientation | Horizontal | Manufacturer | | | |
| | | Sponsor | | | |

**Test**

| | |
|---|---|
| Standard used | ULC S135 |
| Date of test | 08/01/2019 |
| Time of test | 10:16 |
| Date of report | 08/01/2019 |

**Pre-test conditions**

| | |
|---|---|
| Ambient temperature | 22°C |
| Ambient pressure | 98.416 kPa |
| Relative humidity | 27% |

**Test times**

| | |
|---|---|
| Time to ignition | 19 s |
| Time to flameout | 80 s |
| End of test criterion | User entered |
| End of test time (for calculations) | 900 s |

**Apparatus specifications**

| | |
|---|---|
| C-factor | 0.04381 |
| Duct diameter | 0.114 m |
| O2 delay time | 15 s |
| CO2 delay time | 15 s |
| CO delay time | 15 s |
| OD corr. factor | 1.0055 |

**Initial conditions**

| | |
|---|---|
| Baseline ambient oxygen | 20.797% |
| Baseline oxygen | 20.950% |
| Baseline carbon dioxide | 0.0485% |
| Mass at sustained flaming | 99.8 g |

**Heat Release Results**

| | |
|---|---|
| THR (0-300) | 4.41 MJ/m² |
| THR (0-600) | 5.15 MJ/m² |
| THR (0-1200) | - |
| Fuel load | 0.48 MJ/kg |

**Test results (between 19 and 900 s)**

| | |
|---|---|
| Total heat release | 5.5 MJ/m² |
| Total oxygen consumed | 4.1 g |
| Mass lost | 13.3 g |
| Average specific MLR | 2.30 g/(s·m²) |
| Total smoke release | 26.5 m²/m² |
| Total smoke production | 0.2 m² |
| MAHRE | 41.1 kW/m² |

| | Mean | Peak | at time (s) |
|---|---|---|---|
| Heat release rate (kW/m²) | 6.04 | 75.00 | 34 |
| Effective heat of comb. (MJ/kg) | 3.54 | 77.33 | 55 |
| Mass loss rate (g/s) | 0.015 | 0.198 | 180 |
| Specific extinction area (m²/kg) | -132.42 | 3933.10 | 357 |
| Carbon monoxide yield (kg/kg) | 0.0920 | 11.6454 | 133 |
| Carbon dioxide yield (kg/kg) | 0.32 | 41.15 | 95 |

**Test averages**

| from ignition to ignition plus... | 1 min | 2 min | 3 min | 4 min | 5 min | 6 min | 0 s - 916 s | 0 s - 916 s |
|---|---|---|---|---|---|---|---|---|
| Heat release rate (kW/m²) | 53.37 | 31.97 | 22.62 | 17.65 | 14.75 | 12.58 | 5.89 | 5.89 |
| Effective heat of comb. (MJ/kg) | 12.81 | 8.49 | 6.23 | 5.27 | 4.77 | 4.35 | 3.45 | 3.45 |
| Mass loss rate (g/s) | 0.037 | 0.033 | 0.032 | 0.029 | 0.027 | 0.026 | 0.015 | 0.015 |
| Specific extinction area (m²/kg) | 5.16 | 1.92 | -10.19 | -21.70 | -30.36 | -39.66 | -131.04 | -131.04 |
| Carbon monoxide yield (kg/kg) | 0.0374 | 0.0498 | 0.0535 | 0.0578 | 0.0612 | 0.0648 | 0.0889 | 0.0889 |
| Carbon dioxide yield (kg/kg) | 0.90 | 0.59 | 0.45 | 0.39 | 0.36 | 0.34 | 0.31 | 0.31 |

**Smoke results**

| | |
|---|---|
| Total smoke release: non-flaming phase (0 s - 19 s) | 2.1 m²/m² |
| Total smoke release: flaming phase (19 s - 900 s) | 26.5 m²/m² |
| Total smoke release: whole test (0 s - 900 s) | 28.6 m²/m² |

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**Specimen information**

| | | | | | |
|---|---|---|---|---|---|
| E | 13.1 MJ/kg | Specimen number | 2 | Conditioned? | Yes |
| Thickness | 12 mm | Nominal duct flow rate | 24 l/s | Temperature | 23°C |
| Initial mass | 99.28 g | Edge frame used? | Yes | RH | 50% |
| Surface area | 88.4 cm² | Grid used? | No | | |
| Heat flux | 50 kW/m² | Fixed to substrate? | Yes | | |
| Separation | 25 mm | Substrate | 0.5 inch Ca Silicate | | |
| Orientation | Horizontal | Manufacturer | | | |
| | | Sponsor | | | |

**Test**

| | |
|---|---|
| Standard used | ULC S135 |
| Date of test | 08/01/2019 |
| Time of test | 10:36 |
| Date of report | 08/01/2019 |

**Apparatus specifications**

| | |
|---|---|
| C-factor | 0.04381 |
| Duct diameter | 0.114 m |
| O2 delay time | 15 s |
| CO2 delay time | 15 s |
| CO delay time | 15 s |
| OD corr. factor | 1.0055 |

**Pre-test conditions**

| | |
|---|---|
| Ambient temperature | 22°C |
| Ambient pressure | 98.428 kPa |
| Relative humidity | 27% |

**Initial conditions**

| | |
|---|---|
| Baseline ambient oxygen | 20.797% |
| Baseline oxygen | 20.950% |
| Baseline carbon dioxide | 0.0476% |
| Mass at sustained flaming | 99.4 g |

**Test times**

| | |
|---|---|
| Time to ignition | 18 s |
| Time to flameout | 79 s |
| End of test criterion | User entered |
| End of test time (for calculations) | 900 s |

**Heat Release Results**

| | |
|---|---|
| THR (0-300) | 4.40 MJ/m² |
| THR (0-600) | 4.90 MJ/m² |
| THR (0-1200) | - |
| Fuel load | 0.49 MJ/kg |

**Test results (between 18 and 900 s)**

| | |
|---|---|
| Total heat release | 5.5 MJ/m² |
| Total oxygen consumed | 4.1 g |
| Mass lost | 12.9 g |
| Average specific MLR | 2.20 g/(s·m²) |
| Total smoke release | 63.5 m²/m² |
| Total smoke production | 0.6 m² |
| MAHRE | 43.4 kW/m² |

| | Mean | Peak | at time (s) |
|---|---|---|---|
| Heat release rate (kW/m²) | 6.07 | 81.83 | 34 |
| Effective heat of comb. (MJ/kg) | 3.67 | 69.33 | 718 |
| Mass loss rate (g/s) | 0.015 | 0.168 | 52 |
| Specific extinction area (m²/kg) | -25.16 | 3530.19 | 845 |
| Carbon monoxide yield (kg/kg) | 0.0999 | 757.5276 | 601 |
| Carbon dioxide yield (kg/kg) | 0.34 | 1614.92 | 601 |

**Test averages**

| from ignition to ignition plus... | 1 min | 2 min | 3 min | 4 min | 5 min | 6 min | 0 s - 914 s | 0 s - 914 s |
|---|---|---|---|---|---|---|---|---|
| Heat release rate (kW/m²) | 55.51 | 31.96 | 22.31 | 17.59 | 14.61 | 12.49 | 5.94 | 5.94 |
| Effective heat of comb. (MJ/kg) | 13.27 | 8.31 | 6.23 | 5.41 | 4.91 | 4.47 | 3.75 | 3.75 |
| Mass loss rate (g/s) | 0.037 | 0.034 | 0.032 | 0.029 | 0.026 | 0.025 | 0.014 | 0.014 |
| Specific extinction area (m²/kg) | 30.47 | 40.44 | 26.74 | 15.87 | 9.74 | 8.15 | -25.97 | -25.97 |
| Carbon monoxide yield (kg/kg) | 0.0399 | 0.0497 | 0.0554 | 0.0611 | 0.0656 | 0.0694 | 0.1012 | 0.1012 |
| Carbon dioxide yield (kg/kg) | 0.94 | 0.59 | 0.46 | 0.41 | 0.38 | 0.36 | 0.35 | 0.35 |

**Smoke results**

| | |
|---|---|
| Total smoke release: non-flaming phase (0 s - 18 s) | 3.9 m²/m² |
| Total smoke release: flaming phase (18 s - 900 s) | 63.5 m²/m² |
| Total smoke release: whole test (0 s - 900 s) | 67.4 m²/m² |

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**Specimen information**

| | | | | | |
|---|---|---|---|---|---|
| E | 13.1 MJ/kg | Specimen number | 3 | Conditioned? | Yes |
| Thickness | 12 mm | Nominal duct flow rate | 24 l/s | Temperature | 23°C |
| Initial mass | 96.86 g | Edge frame used? | Yes | RH | 50% |
| Surface area | 88.4 cm² | Grid used? | No | | |
| Heat flux | 50 kW/m² | Fixed to substrate? | Yes | | |
| Separation | 25 mm | Substrate | 0.5 inch Ca Silicate | | |
| Orientation | Horizontal | Manufacturer | | | |
| | | Sponsor | | | |

**Test**

| | |
|---|---|
| Standard used | ULC S135 |
| Date of test | 08/01/2019 |
| Time of test | 10:56 |
| Date of report | 08/01/2019 |

**Pre-test conditions**

| | |
|---|---|
| Ambient temperature | 22°C |
| Ambient pressure | 98.424 kPa |
| Relative humidity | 27% |

**Test times**

| | |
|---|---|
| Time to ignition | 22 s |
| Time to flameout | 77 s |
| End of test criterion | User entered |
| End of test time (for calculations) | 900 s |

**Apparatus specifications**

| | |
|---|---|
| C-factor | 0.04381 |
| Duct diameter | 0.114 m |
| O2 delay time | 15 s |
| CO2 delay time | 15 s |
| CO delay time | 15 s |
| OD corr. factor | 1.0055 |

**Initial conditions**

| | |
|---|---|
| Baseline ambient oxygen | 20.795% |
| Baseline oxygen | 20.948% |
| Baseline carbon dioxide | 0.0474% |
| Mass at sustained flaming | 96.6 g |

**Heat Release Results**

| | |
|---|---|
| THR (0-300) | 4.47 MJ/m² |
| THR (0-600) | 5.25 MJ/m² |
| THR (0-1200) | - |
| Fuel load | 0.54 MJ/kg |

**Test results (between 22 and 900 s)**

| | |
|---|---|
| Total heat release | 5.9 MJ/m² |
| Total oxygen consumed | 4.3 g |
| Mass lost | 12.0 g |
| Average specific MLR | 2.00 g/(s·m²) |
| Total smoke release | 68.7 m²/m² |
| Total smoke production | 0.6 m² |
| MAHRE | 42.5 kW/m² |

| | Mean | Peak | at time (s) |
|---|---|---|---|
| Heat release rate (kW/m²) | 6.65 | 84.56 | 40 |
| Effective heat of comb. (MJ/kg) | 4.30 | 73.29 | 256 |
| Mass loss rate (g/s) | 0.014 | 0.204 | 149 |
| Specific extinction area (m²/kg) | -14.64 | 2309.47 | 256 |
| Carbon monoxide yield (kg/kg) | 0.0946 | 10.2716 | 632 |
| Carbon dioxide yield (kg/kg) | 0.36 | 15.54 | 632 |

**Test averages**

| from ignition to ignition plus... | 1 min | 2 min | 3 min | 4 min | 5 min | 6 min | 0 s - 1074 s | 0 s - 1074 s |
|---|---|---|---|---|---|---|---|---|
| Heat release rate (kW/m²) | 56.95 | 33.08 | 23.47 | 18.26 | 15.00 | 12.98 | 5.50 | 5.50 |
| Effective heat of comb. (MJ/kg) | 13.81 | 8.72 | 6.68 | 5.87 | 5.30 | 4.89 | 4.14 | 4.14 |
| Mass loss rate (g/s) | 0.036 | 0.034 | 0.031 | 0.027 | 0.025 | 0.023 | 0.012 | 0.012 |
| Specific extinction area (m²/kg) | 37.82 | 37.46 | 22.11 | 17.64 | 14.29 | 13.06 | -24.08 | -24.08 |
| Carbon monoxide yield (kg/kg) | 0.0428 | 0.0531 | 0.0582 | 0.0636 | 0.0674 | 0.0696 | 0.0949 | 0.0949 |
| Carbon dioxide yield (kg/kg) | 0.99 | 0.64 | 0.50 | 0.45 | 0.42 | 0.39 | 0.36 | 0.36 |

**Smoke results**

| | |
|---|---|
| Total smoke release: non-flaming phase (0 s - 22 s) | 6.7 m²/m² |
| Total smoke release: flaming phase (22 s - 900 s) | 68.7 m²/m² |
| Total smoke release: whole test (0 s - 900 s) | 75.4 m²/m² |

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Summary Results

| | | | |
|---|---|---|---|
| Heat flux | 50 kW/m² | Surface area | 88.4 cm² |
| Orientation | Horizontal | Retainer frame used? | Yes |

**Test averages**

| Test | t(ig) (s) | t(fo) (s) | t(end) (s) | HRR(peak) (kW/m²) | tpeak (s) | THR (MJ/m²) | HRR(60) (kW/m²) | HRR(180) (kW/m²) | HRR(300) (kW/m²) |
|---|---|---|---|---|---|---|---|---|---|
| **Mean** | **19.7** | **78.7** | **900** | **80.47** | **36** | **5.60** | **55.28** | **22.80** | **14.78** |
| 1 | 19 | 80 | 900 | 75.00 | 34 | 5.47 | 53.37 | 22.62 | 14.75 |
| 2 | 18 | 79 | 900 | 81.83 | 34 | 5.46 | 55.51 | 22.31 | 14.61 |
| 3 | 22 | 77 | 900 | 84.56 | 40 | 5.87 | 56.95 | 23.47 | 15.00 |

| Test | Flux (kW/m²) | t (mm) | Area (cm²) | m(i) (g) | m(s) (g) | m(f) (g) | Δm (g) | Ave MLR (g/s·m²) | EHC(av) (MJ/kg) |
|---|---|---|---|---|---|---|---|---|---|
| **Mean** | | **12** | | **98.8** | **98.6** | **85.9** | **12.7** | **2.2** | **3.84** |
| 1 | 50 | 12 | 88.4 | 100.32 | 99.8 | 86.5 | 13.3 | 2.3 | 3.54 |
| 2 | 50 | 12 | 88.4 | 99.28 | 99.4 | 86.5 | 12.9 | 2.2 | 3.67 |
| 3 | 50 | 12 | 88.4 | 96.86 | 96.6 | 84.6 | 12.0 | 2.0 | 4.30 |

| Test | THR(0-300) (MJ/m²) | THR(0-600) (MJ/m²) | THR(0-1200) (MJ/m²) | SPR(av) (m²/s) | SEA(av) (m²/kg) | Fuel load (MJ/kg) | MARHE (kW/m²) |
|---|---|---|---|---|---|---|---|
| **Mean** | **4.42** | **5.10** | - | **-0.0009** | **-57.41** | **0.50** | **42.33** |
| 1 | 4.41 | 5.15 | - | -0.0020 | -132.42 | 0.48 | 41.13 |
| 2 | 4.40 | 4.90 | - | -0.0004 | -25.16 | 0.49 | 43.36 |
| 3 | 4.47 | 5.25 | - | -0.0002 | -14.64 | 0.54 | 42.51 |

| Test | Date | Specimen # | Line colour | Filename |
|---|---|---|---|---|
| 1 | 08/01/2019 | 1 | | C:\CC5\Data\Vipeq Canada\103749915\103749915 Vipeq Corksheild ULCS135-1.csv |
| 2 | 08/01/2019 | 2 | | C:\CC5\Data\Vipeq Canada\103749915\103749915 Vipeq Corksheild ULCS135-2.csv |
| 3 | 08/01/2019 | 3 | | C:\CC5\Data\Vipeq Canada\103749915\103749915 Vipeq Corksheild ULCS135-3.csv |

General Observations:

Ignition with orange flames.

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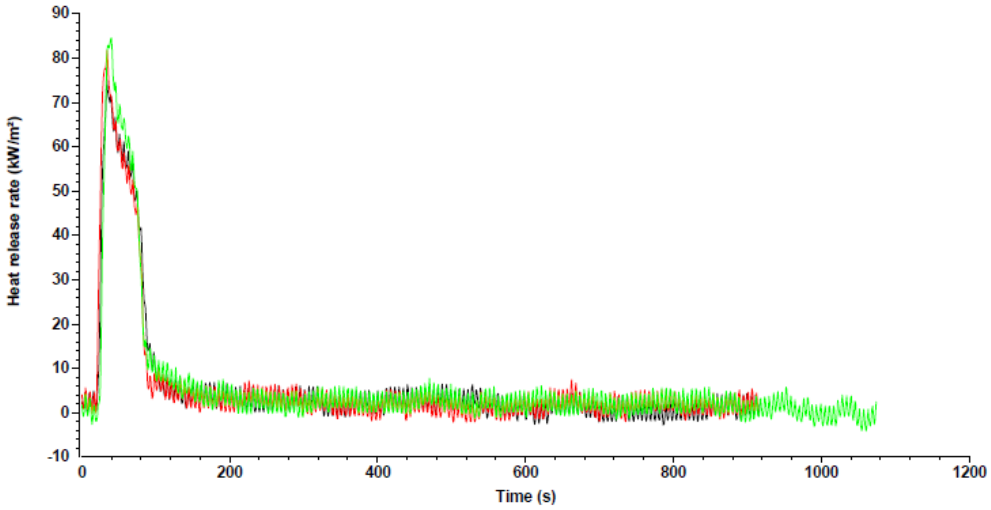
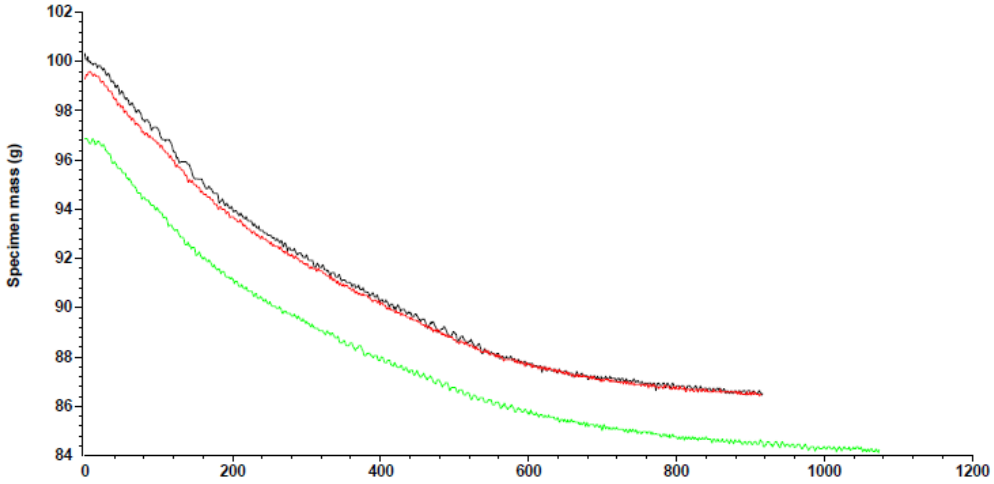
Graphs

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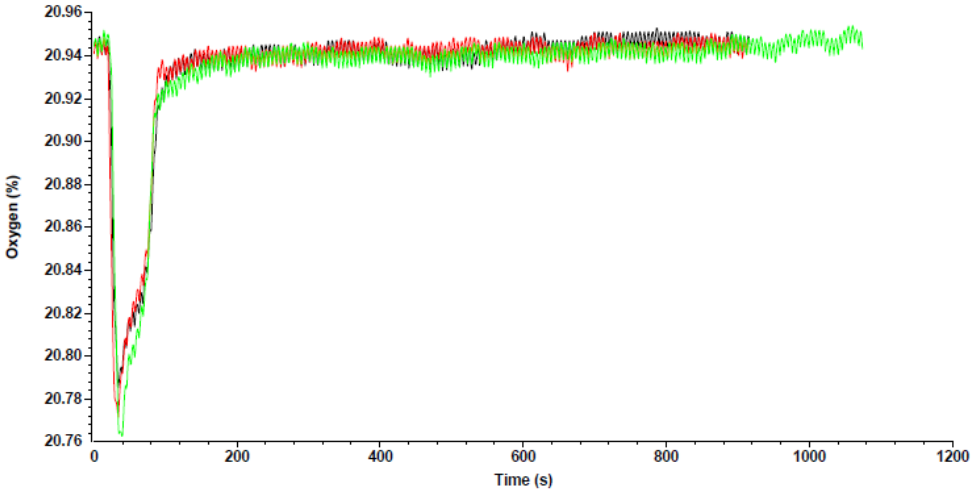


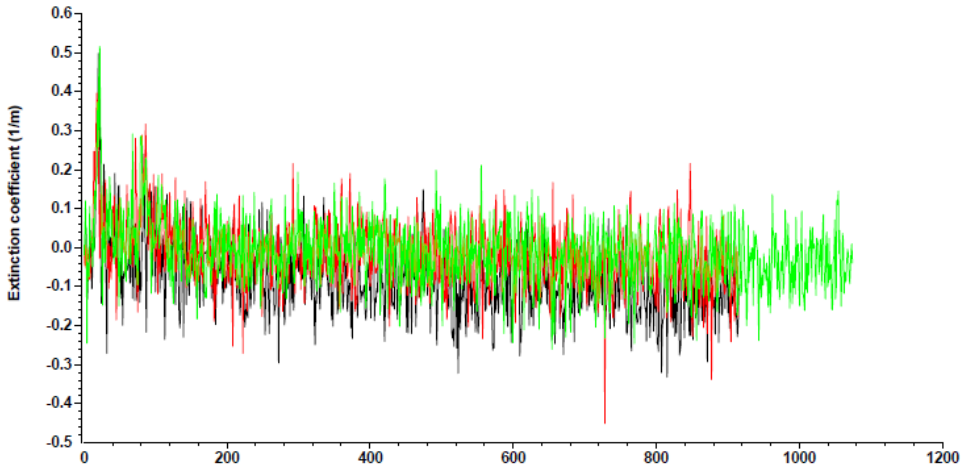


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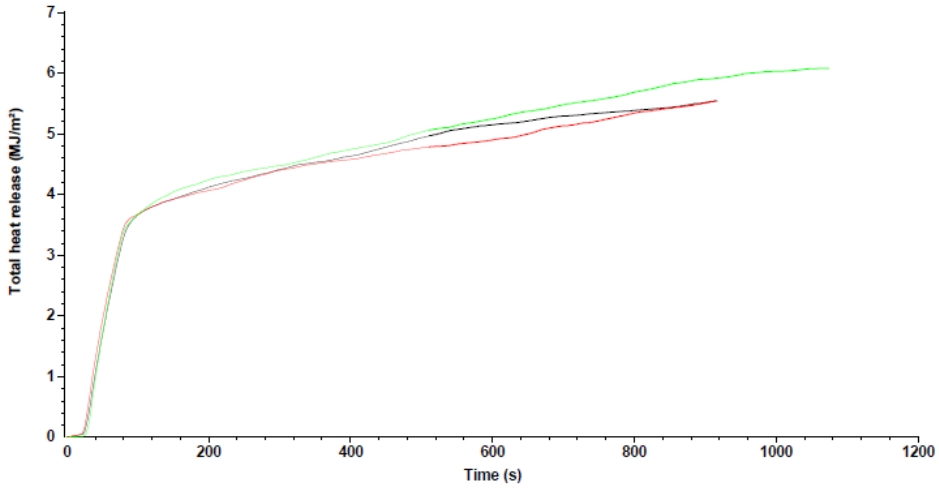


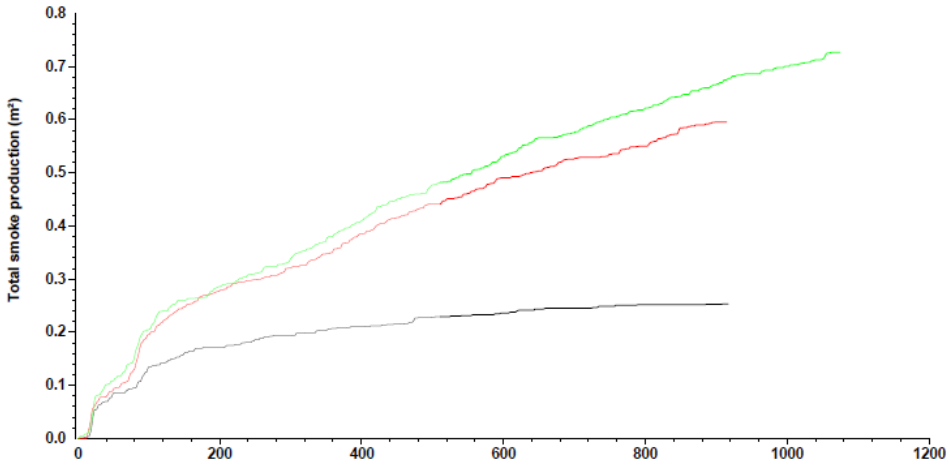


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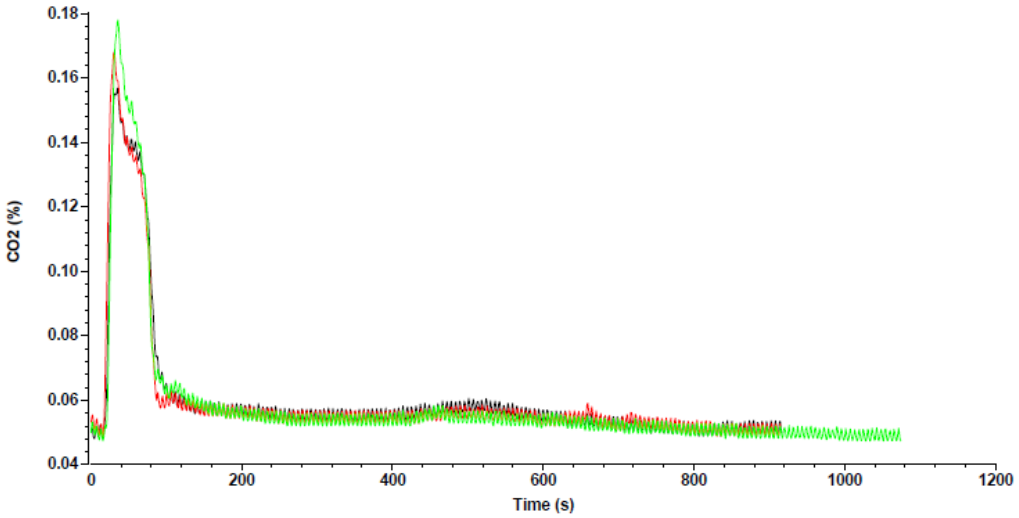


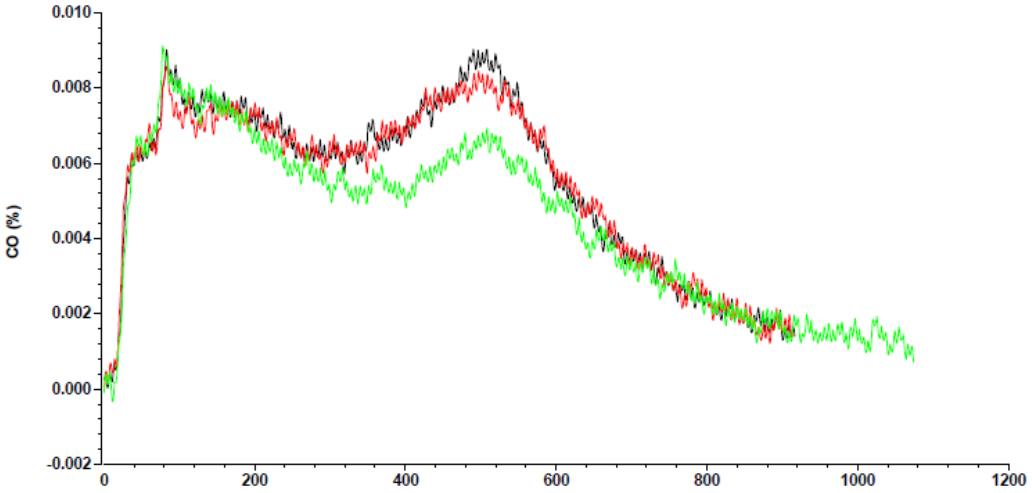


The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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## SECTION 9
## CONCLUSION

There is no pass fail requirements for the ULC S135. There were no deviations to the standard.

## SECTION 10
## REVISION LOG

| REVISION # | DATE | PAGES | REVISION |
|---|---|---|---|
| 0 | 01/08/19 | 12 | Original Report Issue |