

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

Client : Unique Fabrics
6 Mt Eden Road
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 19-004329
Issue Date : 04/09/2019
Print Date : 4/09/2019

Sample Description Clients Ref : "Arte Prisma"
Wallpaper samples-Ecorse,Galuchat,Grand Moire, Leather Roundels,Mosaic,Mosaic
Damask,Oxide Fibres,Sapphire Maze,Stratos, Stratos Classix,Belgian Linen,
Sapphire,Aurora,Lenox,Sterling, Zebrino,Aspen, Aztec,Concord, Fuego,Lime, Macau,Orion,
Cut Plaid,Stream, Cayenne,Corwall,Stone Rhythm
Colour : Various
End Use : Wallcovering
Nominal Composition : PVC on Polyester/Cotton Scrim

ISO 5660.1-2015 Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 04/09/2019
Operator AWTA Test Operator 7
Face Tested Face

| | Specimen | | | | |
|----------------------------------|----------|------|------|------|--------------------|
| | 1 | 2 | 3 | Mean | |
| Average Heat Release Rate | 8.1 | 6.9 | 10.0 | 8.3 | kW/m ² |
| Average Specific extinction area | 68.0 | 50.5 | 50.4 | 56.3 | m ² /kg |

Test orientation : Horizontal

| | Specimen | | | | |
|----------------------------------|----------|-------|-------|-------|-------------------|
| | 1 | 2 | 3 | Mean | |
| Irradiance | 50 | 50 | 50 | 50 | kW/m ² |
| Exhaust flow rate | 0.024 | 0.024 | 0.024 | 0.024 | m ³ /s |
| Time to sustained flaming | 38 | 41 | 34 | 38 | sec |
| Test duration | 1838 | 1841 | 1834 | 1838 | sec |
| Peak heat release after ignition | 123.3 | 123.1 | 137.4 | 127.9 | kW/m ² |
| Average heat at 180 s | 39.8 | 38.9 | 43.0 | 40.6 | kW/m ² |
| Average heat at 300 s | 30.7 | 30.9 | 33.8 | 31.8 | kW/m ² |

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- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
: Accreditation No. 1356



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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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| | | | | | |
|---|----------|----------|----------|--------|--------------------------------|
| Total heat released | 14.9 | 14.2 | 18.1 | 15.7 | MJ/m ² |
| Average effective heat of combustion | 5.6 | 4.9 | 7.2 | 5.9 | MJ/kg |
| Initial thickness | 11 | 11 | 11 | 11.0 | mm |
| Initial mass | 69.3 | 69.1 | 68.3 | 68.9 | g |
| Mass at sustained flaming | 68.2 | 68.1 | 67.8 | 68.0 | g |
| Mass remaining | 47.3 | 48.1 | 47.7 | 47.7 | g |
| Mass loss | 2714.3 | 2592.9 | 2548.9 | 2618.7 | g/m ² |
| Average rate of mass loss | 1.5 | 1.4 | 1.4 | 1.4 | g/m ² .s |
| Total smoke Production (Non Flaming phase) | 66.1 | 76.4 | 56.7 | 66.4 | m ² /m ² |
| Total smoke Production (Flaming phase) | 197.8 | 140.8 | 141.6 | 160.1 | m ² /m ² |
| Total smoke Production (Non Flaming & Flaming phase) | 263.9 | 217.2 | 198.3 | 226.5 | m ² /m ² |
| Specimen Surface area | 0.00810 | 0.00810 | 0.00810 | - | m ² |
| C-Factor (Calibration Constant) | 0.041489 | 0.041489 | 0.041489 | - | |
| Additional Observations | None | | | | |
| Difficulties Encountered during Testing | None | | | | |

Samples were adhered to a substrate of 10mm thick plasterboard using Professional Ultra Clear PRO 880 wallcovering adhesive prior to testing.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

Note: All calculations are based on ignition + 30 minutes.

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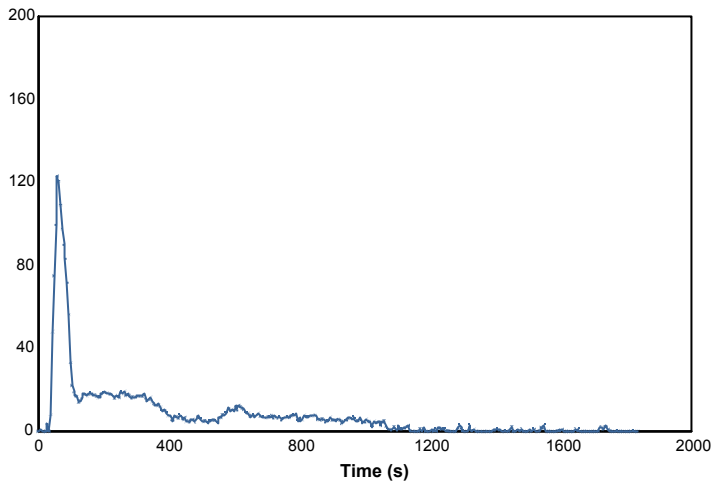
TEST REPORT

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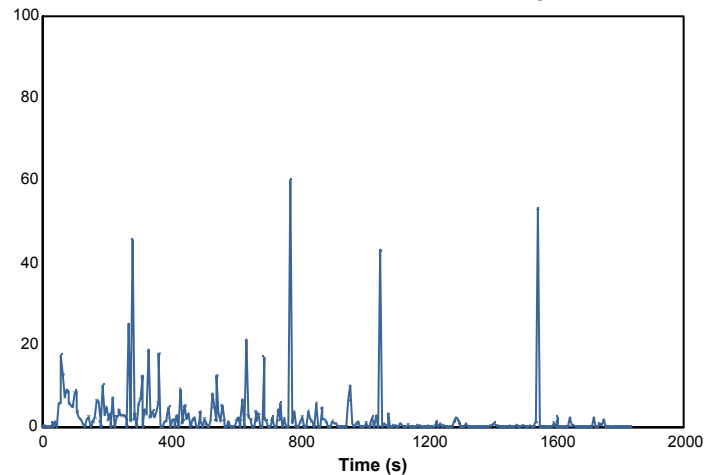
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Specimen : 1

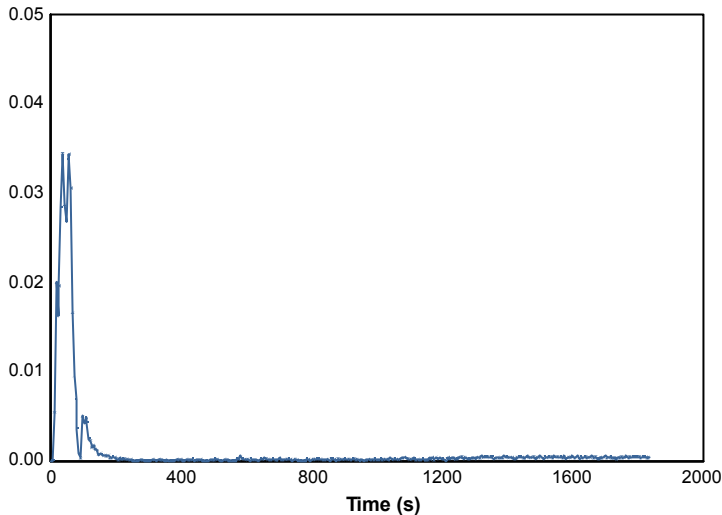
Heat release rate (kW/m²)



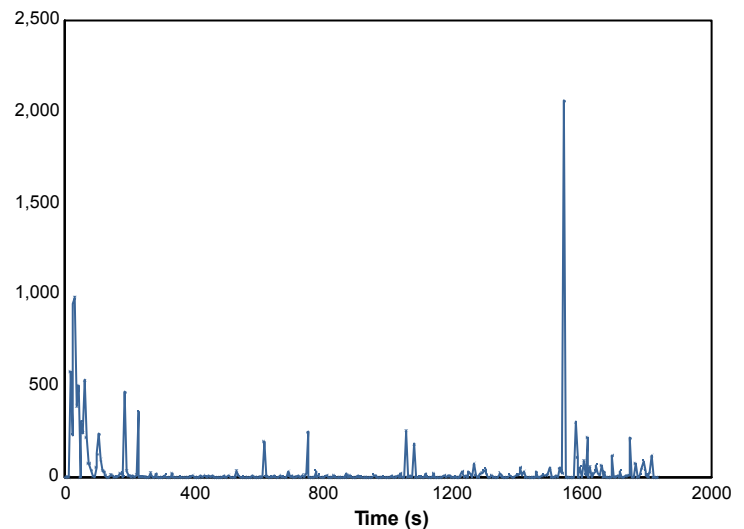
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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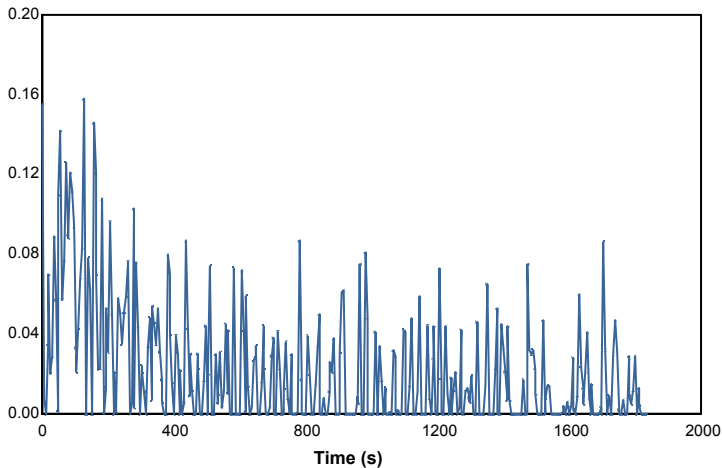
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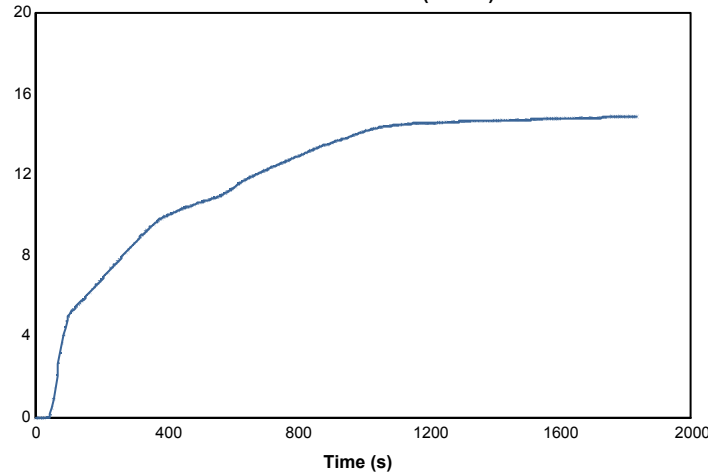
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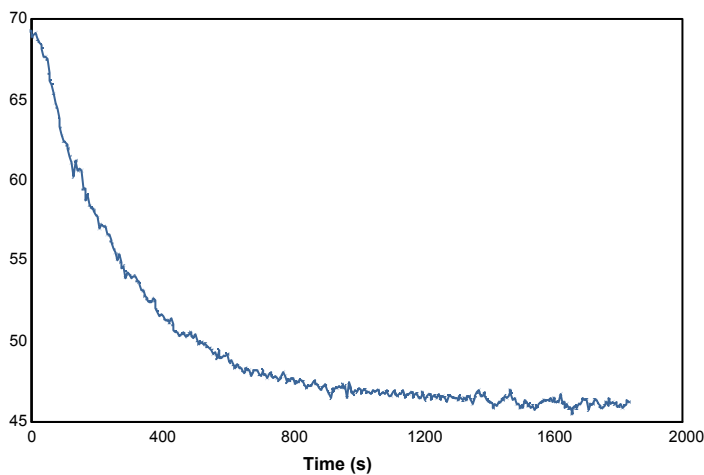
Mass loss rate (g/s)



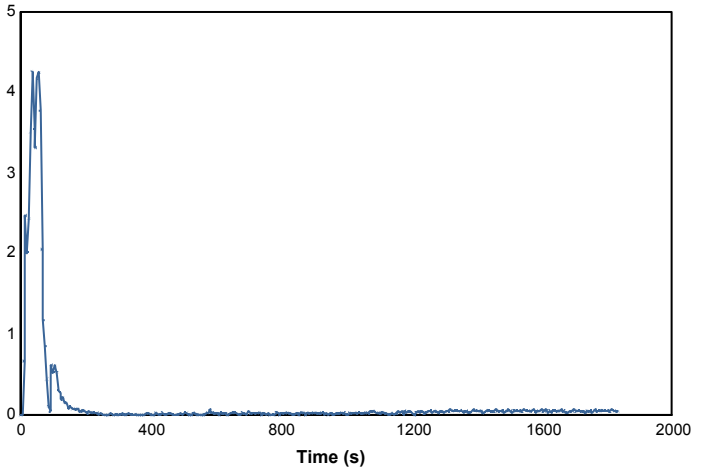
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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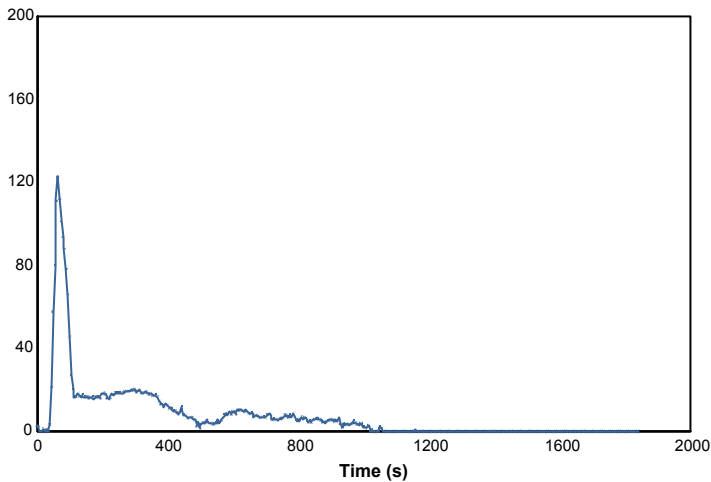
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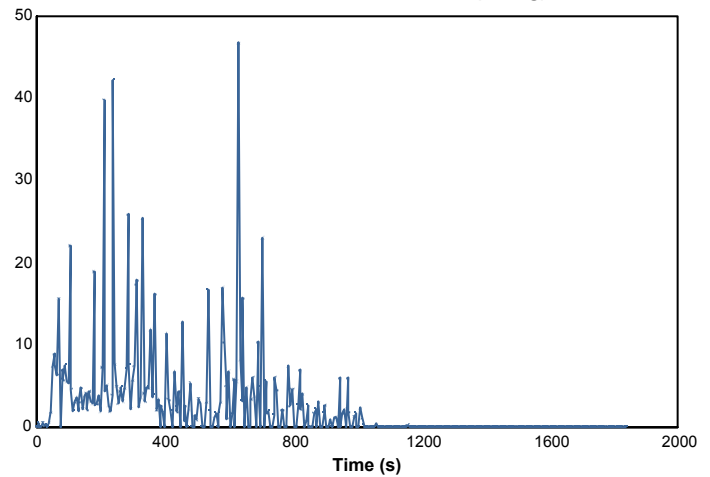
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Specimen : 2

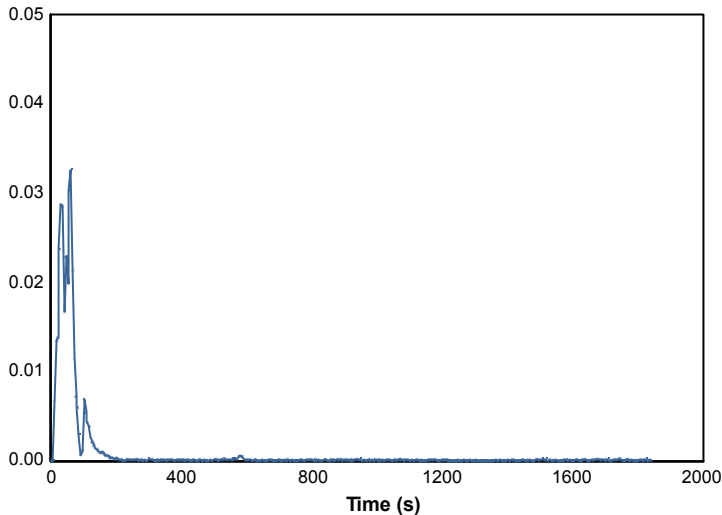
Heat release rate (kW/m²)



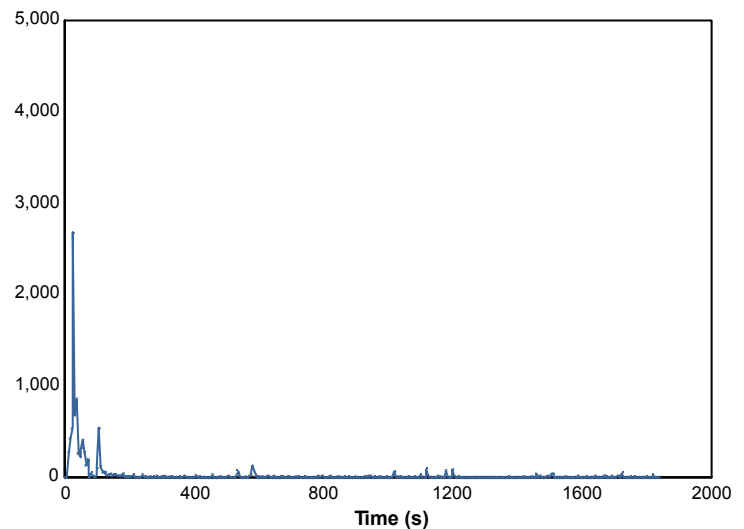
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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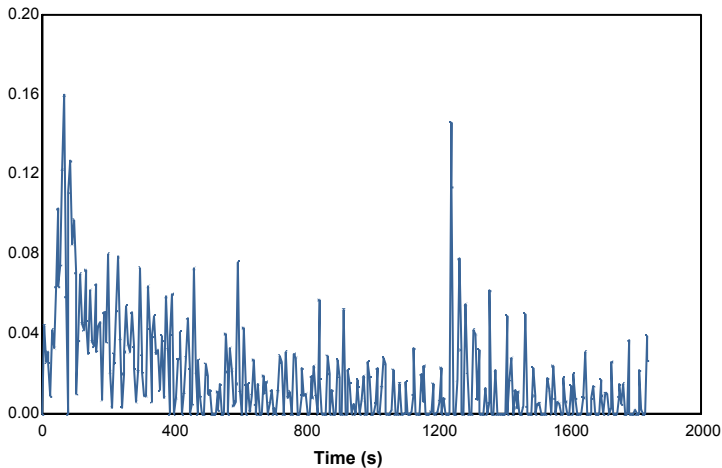
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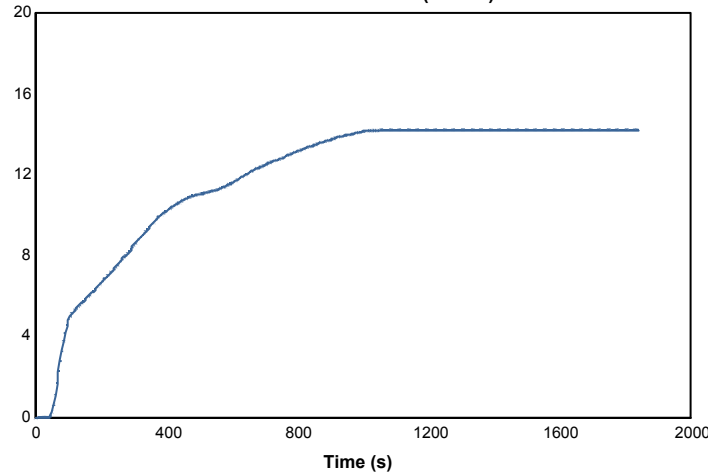
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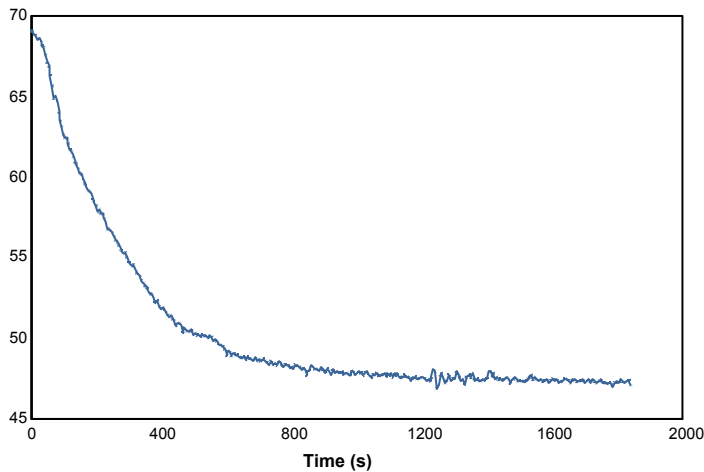
Mass loss rate (g/s)



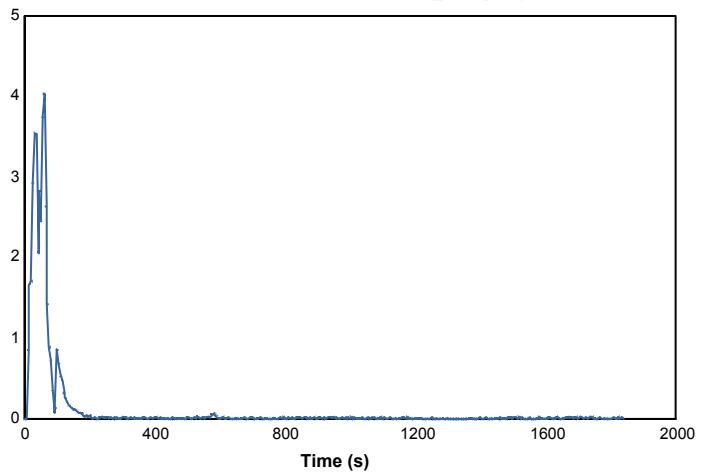
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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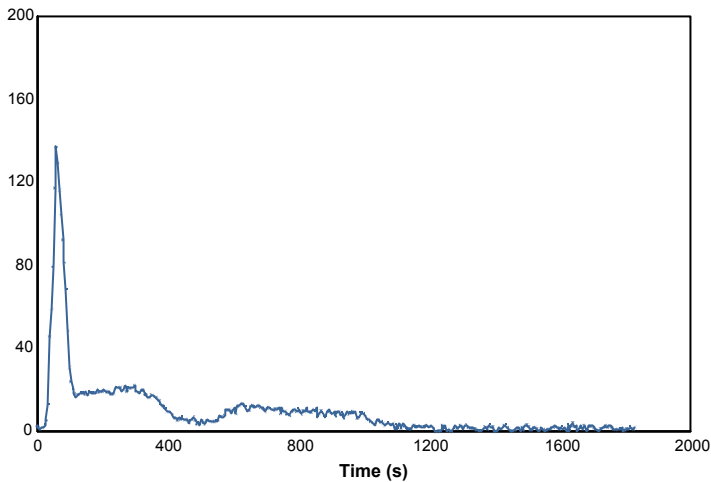
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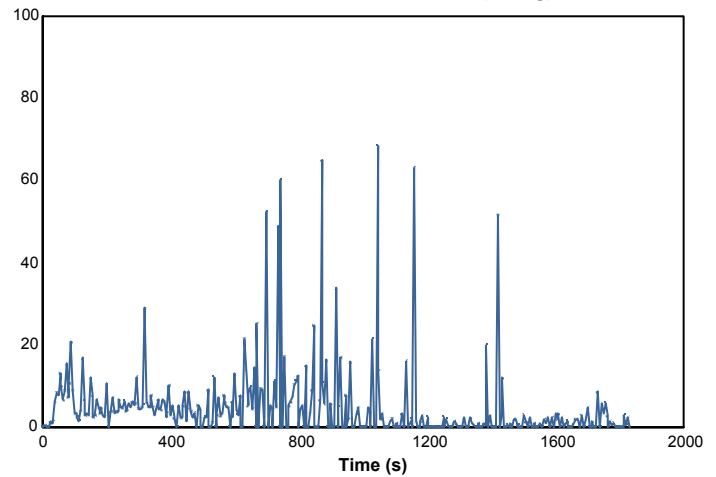
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Specimen : 3

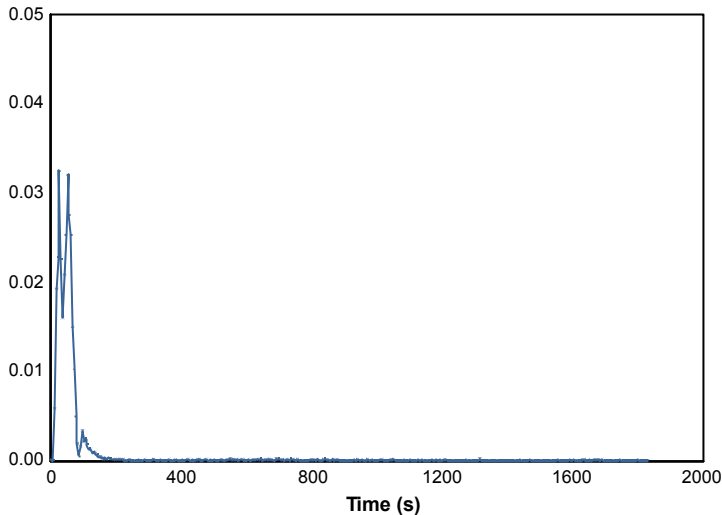
Heat release rate (kW/m²)



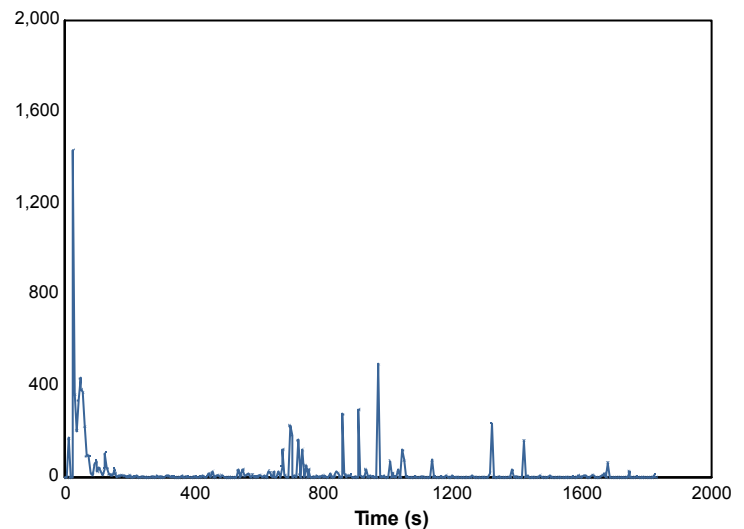
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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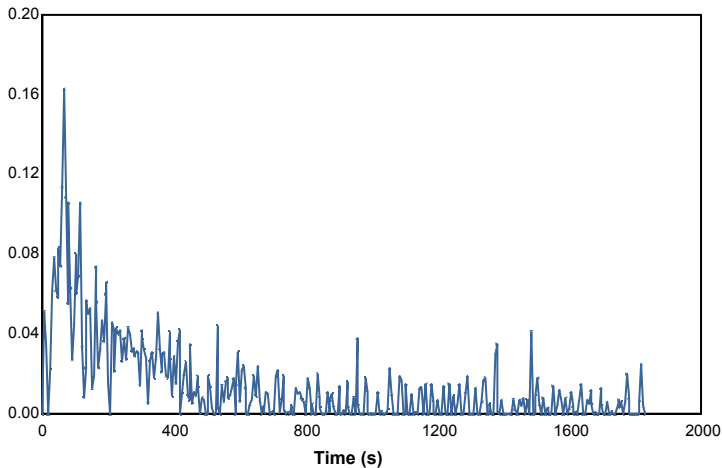
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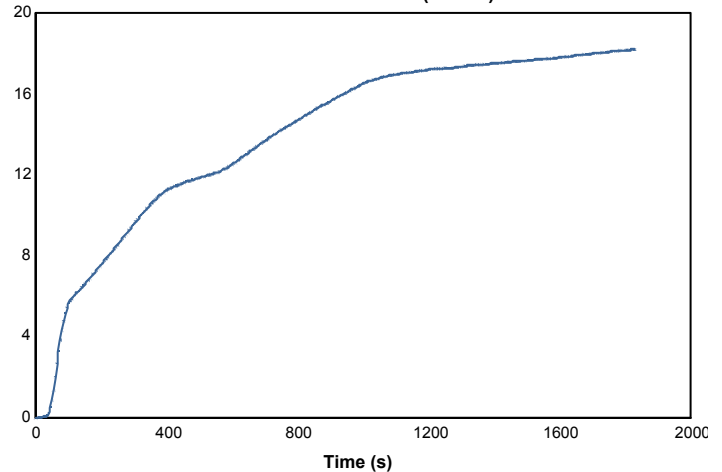
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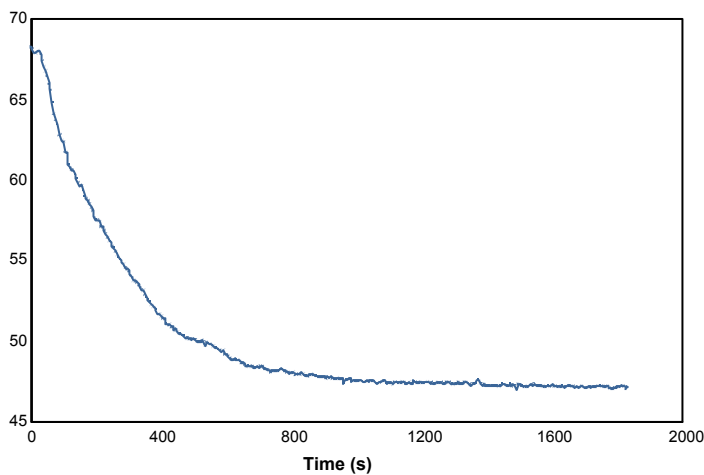
Mass loss rate (g/s)



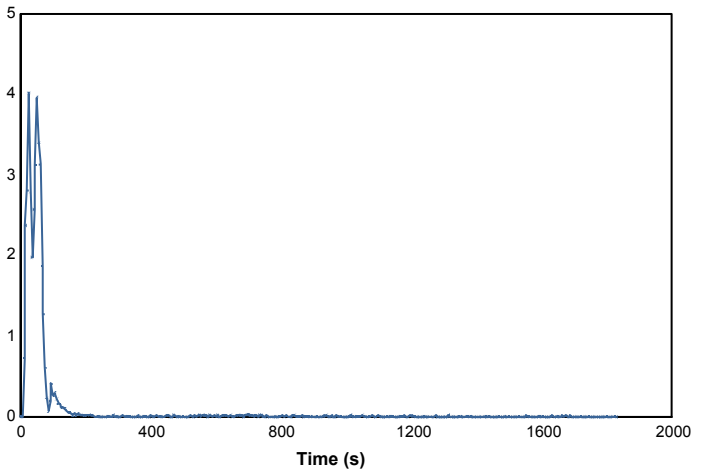
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : Unique Fabrics
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Sponsor Product

Clients Ref : "Arte Prisma"

Wallpaper samples-Ecorse,Galuchat,Grand Moire, Leather Roundels,Mosaic,Mosaic Damask,Oxide
Fibres,Sapphire Maze,Stratos, Stratos Classix,Belgian Linen, Sapphire,Aurora,Lenox,Sterling,
Zebrino,Aspen, Aztec,Concord, Fuego,Lime, Macau,Orion, Cut Plaid,Stream,
Cayenne,Corwall,Stone Rhythm

Colour : Various

End Use : Wallcovering

Nominal Composition : PVC on Polyester/Cotton Scrim

Product Group Number Classification : 1S

Average Specific Extinction Area : 56.3 m²/kg



Chris Campbell
Client Relations Manager

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