



## TEST REPORT

Client: Interface Australia PTY LTD  
34 Airds Road  
Minto NSW 2566

Test Report No: R20-251  
Sample Received date: 15/10/2020  
Test Date: 29/12/2020  
Report Date: 31/12/2020

Sample Description: Client Reference: "SHADED PIGMENT"  
100% Solution Dyed Nylon 6  
882g/m<sup>2</sup> on a Glasbac Backing

AS ISO 9239.1: Reaction to Fire Tests for Floorings – Determination of the Burning Behaviour Using a Radiant Heat Source

### Results Summary

| CHF Value   | Sample 1 | Sample 2 | Sample 3 | Mean |                   |
|-------------|----------|----------|----------|------|-------------------|
| Length      | 5.2      | -        | -        | -    | kW/m <sup>2</sup> |
| Width       | 4.3      | 4.8      | 5.5      | 4.9  | kW/m <sup>2</sup> |
| Smoke Value | Sample 1 | Sample 2 | Sample 3 | Mean |                   |
| Length      | 191      | -        | -        | -    | %.min             |
| Width       | 218      | 229      | 182      | 210  | %.min             |

Melting Yes  
Blistering Yes

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 sole criterion for assessing the potential fire hazard of the product in use.

Sample was conditioned in accordance with BS EN 13238 at a temperature of 23±2°C and relative humidity of 50±5% for a minimum of 48 hours prior to testing.

Each Specimen was adhered to a substrate of 9mm thick fibre cement board using Intertac adhesive.



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### Sample 1 Length

### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 26 seconds (146 s)   |
| Time to flameout                                     | : 42 minutes 25 seconds (2545 s) |
| Extent of burning (mm)                               | : 400                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 5.15                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 9.22                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 6.74                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 5.34                           |
| Flame spread at 10 minutes (mm)                      | : 210                            |
| Flame spread at 20 minutes (mm)                      | : 320                            |
| Flame spread at 30 minutes (mm)                      | : 390                            |
| Peak light attenuation (%)                           | : 42.5                           |
| Time to peak light attenuation                       | : 9 minutes 13 seconds (553 s)   |
| Total integrated smoke (%.min)                       | : 190.68                         |



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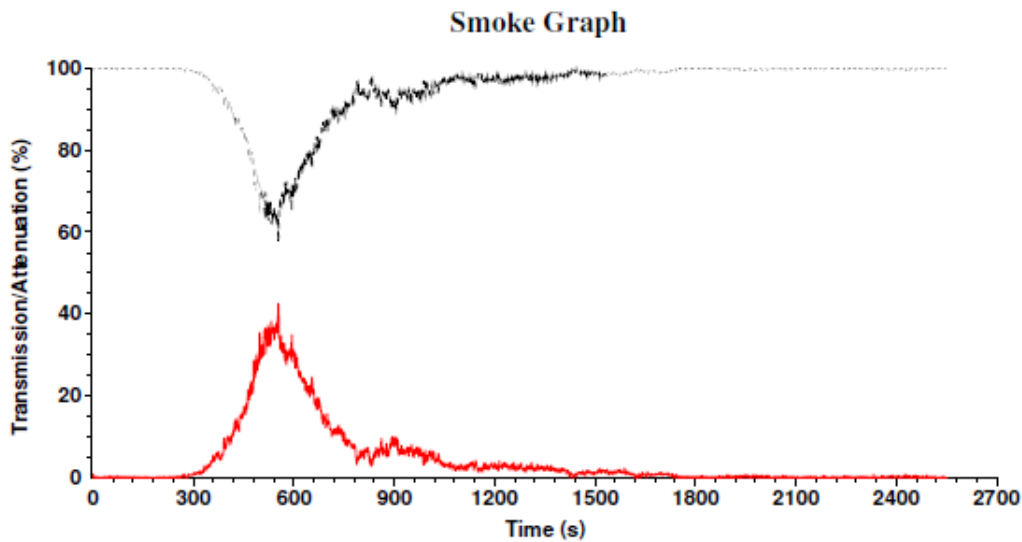
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### Sample 1 Length

### Light Attenuation Over Time and Rake Results

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Test name : LENGTH1  
File name : C:\FRPSOFT\DATA\20120037.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 268      | 12.1                      | 3.245                    | 510           | -        | 3.4                       | -                        |
| 110           | 473      | 11.1                      | 5.256                    | 560           | -        | 2.8                       | -                        |
| 160           | 528      | 10.2                      | 5.399                    | 610           | -        | 2.4                       | -                        |
| 210           | 599      | 9.2                       | 5.522                    | 660           | -        | 2.0                       | -                        |
| 260           | 787      | 8.1                       | 6.335                    | 710           | -        | 1.7                       | -                        |
| 310           | 1154     | 6.9                       | 8.011                    | 760           | -        | 1.4                       | -                        |
| 360           | 1572     | 5.9                       | 9.294                    | 810           | -        | 1.3                       | -                        |
| 410           | -        | 5.0                       | -                        | 860           | -        | 1.1                       | -                        |
| 460           | -        | 4.1                       | -                        | 910           | -        | 1.0                       | -                        |



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### Sample 1 Width

#### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 28 seconds (148 s)   |
| Time to flameout                                     | : 47 minutes 25 seconds (2845 s) |
| Extent of burning (mm)                               | : 450                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 4.29                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 9.22                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 7.61                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 5.53                           |
| Flame spread at 10 minutes (mm)                      | : 210                            |
| Flame spread at 20 minutes (mm)                      | : 280                            |
| Flame spread at 30 minutes (mm)                      | : 380                            |
| Peak light attenuation (%)                           | : 36.29                          |
| Time to peak light attenuation                       | : 8 minutes 04 seconds (484 s)   |
| Total integrated smoke (%.min)                       | : 217.7                          |



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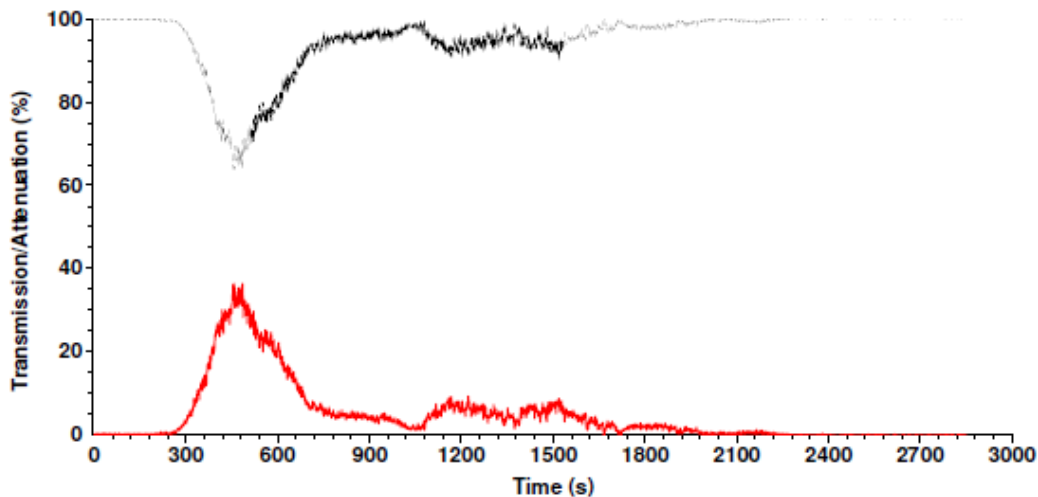
### Sample 1 Width

### Light Attenuation Over Time and Rake Results

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#### Smoke Graph



Test name : WIDTH1  
File name : C:\FRPSOFT\DATA\20120038.CSV

#### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 1050     | 12.1                      | 12.714                   | 510           | -        | 3.4                       | -                        |
| 110           | 430      | 11.1                      | 4.778                    | 560           | -        | 2.8                       | -                        |
| 160           | 503      | 10.2                      | 5.143                    | 610           | -        | 2.4                       | -                        |
| 210           | 586      | 9.2                       | 5.402                    | 660           | -        | 2.0                       | -                        |
| 260           | 1005     | 8.1                       | 8.090                    | 710           | -        | 1.7                       | -                        |
| 310           | 1342     | 6.9                       | 9.316                    | 760           | -        | 1.4                       | -                        |
| 360           | 1625     | 5.9                       | 9.607                    | 810           | -        | 1.3                       | -                        |
| 410           | 2144     | 5.0                       | 10.639                   | 860           | -        | 1.1                       | -                        |
| 460           | -        | 4.1                       | -                        | 910           | -        | 1.0                       | -                        |



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### Sample 2 Width

### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 36 seconds (156 s)   |
| Time to flameout                                     | : 43 minutes 32 seconds (2612 s) |
| Extent of burning (mm)                               | : 420                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 4.79                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 9.22                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 7.16                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 5.53                           |
| Flame spread at 10 minutes (mm)                      | : 210                            |
| Flame spread at 20 minutes (mm)                      | : 300                            |
| Flame spread at 30 minutes (mm)                      | : 380                            |
| Peak light attenuation (%)                           | : 33.59                          |
| Time to peak light attenuation                       | : 7 minutes 36 seconds (456 s)   |
| Total integrated smoke (%.min)                       | : 228.75                         |





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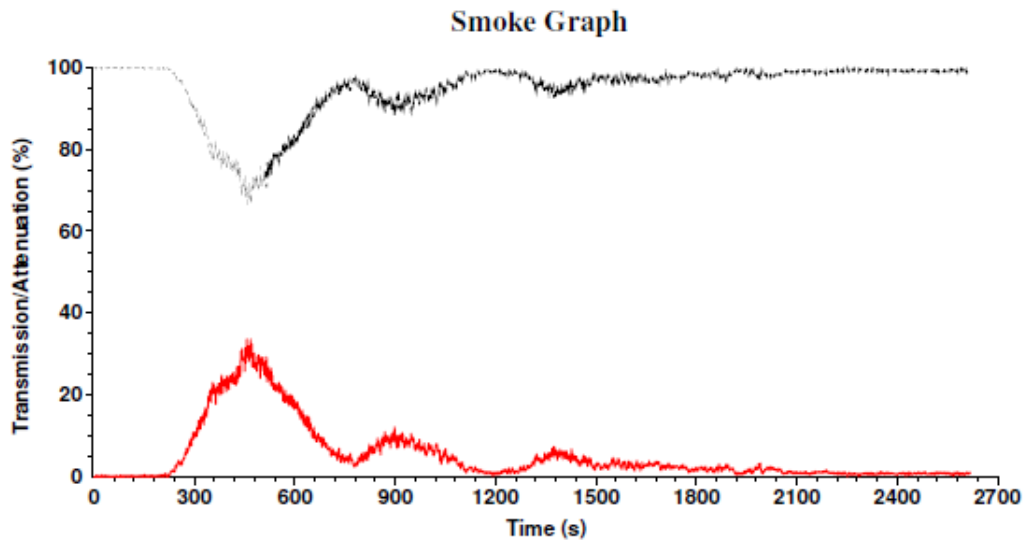
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### Sample 2 Width

### Light Attenuation Over Time and Rake Results

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Test name : WIDTH2  
File name : C:\FRPSOFT\DATA\20120039.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 270      | 12.1                      | 3.269                    | 510           | -        | 3.4                       | -                        |
| 110           | 464      | 11.1                      | 5.156                    | 560           | -        | 2.8                       | -                        |
| 160           | 481      | 10.2                      | 4.918                    | 610           | -        | 2.4                       | -                        |
| 210           | 577      | 9.2                       | 5.319                    | 660           | -        | 2.0                       | -                        |
| 260           | 813      | 8.1                       | 6.545                    | 710           | -        | 1.7                       | -                        |
| 310           | 1439     | 6.9                       | 9.990                    | 760           | -        | 1.4                       | -                        |
| 360           | 1759     | 5.9                       | 10.399                   | 810           | -        | 1.3                       | -                        |
| 410           | 2090     | 5.0                       | 10.371                   | 860           | -        | 1.1                       | -                        |
| 460           | -        | 4.1                       | -                        | 910           | -        | 1.0                       | -                        |



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### Sample 3 Width

#### Test Results

|  |                                  |
|--|----------------------------------|
| Time to ignition                                     | : 2 minutes 41 seconds (161 s)   |
| Time to flameout                                     | : 39 minutes 21 seconds (2361 s) |
| Extent of burning (mm)                               | : 380                            |
| Critical flux at extinguishment (kW/m <sup>2</sup> ) | : 5.53                           |
| HF-10 (kW/m <sup>2</sup> )                           | : 9.42                           |
| HF-20 (kW/m <sup>2</sup> )                           | : 7.61                           |
| HF-30 (kW/m <sup>2</sup> )                           | : 5.91                           |
| Flame spread at 10 minutes (mm)                      | : 200                            |
| Flame spread at 20 minutes (mm)                      | : 280                            |
| Flame spread at 30 minutes (mm)                      | : 360                            |
| Peak light attenuation (%)                           | : 38.26                          |
| Time to peak light attenuation                       | : 6 minutes 55 seconds (415 s)   |
| Total integrated smoke (%.min)                       | : 182.36                         |





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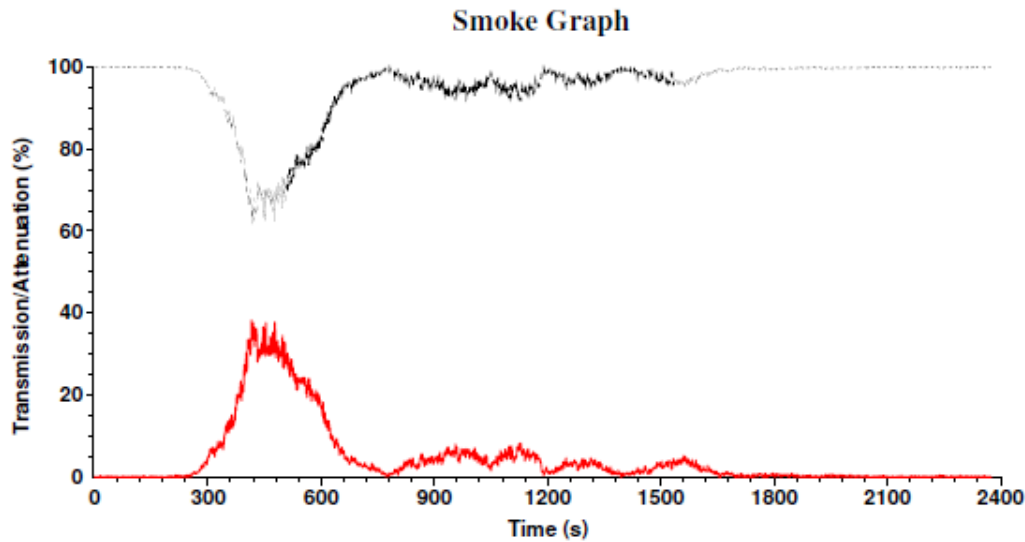
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### Sample 3 Width

### Light Attenuation Over Time and Rake Results

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Test name : WIDTH3  
File name : C:\FRPSOFT\DATA\20120040.CSV

### Rake Results

| Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) | Position (mm) | Time (s) | Flux (kW/m <sup>2</sup> ) | Qsb (MJ/m <sup>2</sup> ) |
|---------------|----------|---------------------------|--------------------------|---------------|----------|---------------------------|--------------------------|
| 60            | 294      | 12.1                      | 3.560                    | 510           | -        | 3.4                       | -                        |
| 110           | 447      | 11.1                      | 4.967                    | 560           | -        | 2.8                       | -                        |
| 160           | 489      | 10.2                      | 5.000                    | 610           | -        | 2.4                       | -                        |
| 210           | 638      | 9.2                       | 5.881                    | 660           | -        | 2.0                       | -                        |
| 260           | 934      | 8.1                       | 7.519                    | 710           | -        | 1.7                       | -                        |
| 310           | 1384     | 6.9                       | 9.608                    | 760           | -        | 1.4                       | -                        |
| 360           | 1765     | 5.9                       | 10.435                   | 810           | -        | 1.3                       | -                        |
| 410           | -        | 5.0                       | -                        | 860           | -        | 1.1                       | -                        |
| 460           | -        | 4.1                       | -                        | 910           | -        | 1.0                       | -                        |

END OF REPORT