TEST REPORT

Client: BASF New Zealand Limited
Level 4
4 Leonard Isitt Drive
Auckland Airport Auckland 2022 New Zealand

Sample Description
- Clients Ref: "KF162"
- Rigid foam
- Colour: White
- End Use: Insulation
- Nominal Composition: Polystyrene
- Nominal Mass per Unit Area/Density: Approx. 17.7kg/m³
- Nominal Thickness: 50mm

AS/NZS 1530.3-1999
Methods for Fire Tests on Building Materials, Components and Structures Part 3:
Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke
Release

Face tested: Face
Date tested: 15/10/2014

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard Error</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ignition time</td>
<td>0.06</td>
<td>11.13</td>
</tr>
<tr>
<td>Flame propagation time</td>
<td>Nil</td>
<td>Nil sec</td>
</tr>
<tr>
<td>Heat release integral</td>
<td>3.1</td>
<td>32.9 KJ/m²</td>
</tr>
<tr>
<td>Smoke release, log d</td>
<td>0.088</td>
<td>-1.2609</td>
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<tr>
<td>Optical density, d</td>
<td>0.0597 / metre</td>
<td></td>
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</table>

Number of specimens ignited: 6
Number of specimens tested: 6

Regulatory Indices:
- Ignitability Index: 9 Range 0-20
- Spread of Flame Index: 0 Range 0-10
- Heat Evolved Index: 1 Range 0-10
- Smoke Developed Index: 3 Range 0-10

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These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Each test specimen had an unattached backing of 4.5mm thick fibre reinforced cement board.

Each test specimen was restrained on the exposed face by a layer of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions and the assembly clamped in four places.

Specimens tended to flash before ignition. Ignition was based on the occurrence of a single flash of flame which lasted longer than 10 seconds.

The specimens melted away from the area of maximum heat and produced flaming droplets during the test. Due to this phenomena it should be recognised that this test result may not be a true indication of the product's fire hazard properties.

The specimens melted and flowed away from the area of maximum heat during the test. Due to this phenomena it should be recognised that this test result may not be a true indication of the product's fire hazard properties.