Attention: Wayne Watson
Expol
P O Box 13560
Onehunga
Auckland    1643

Project: Product Evaluation

Client: Expol
Contractor: Expol
Sampled by: Expol
Date sampled: 18/04/12
Sampling method: Not Stated
Sample description: 20kg/m³ Polystyrene
Sample condition: As Received

<table>
<thead>
<tr>
<th>Sample No.</th>
<th>Density kg/m³</th>
<th>1.0%</th>
<th>2.0%</th>
<th>5.0%</th>
<th>10.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20.3</td>
<td>55.0</td>
<td>102.8</td>
<td>136.2</td>
<td>153.6</td>
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<tr>
<td>2</td>
<td>20.3</td>
<td>54.5</td>
<td>104.3</td>
<td>139.8</td>
<td>158.8</td>
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<tr>
<td>3</td>
<td>20.5</td>
<td>45.1</td>
<td>92.6</td>
<td>134.1</td>
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<td>42.6</td>
<td>91.1</td>
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<td>5</td>
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<td>47.8</td>
<td>93.2</td>
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</tr>
</tbody>
</table>

Mean 20.4 49.0 96.8 135.3 154.9

Test Methods

AS 2498.3 - 1993 "Method 3: Determination of compressive stress"
Mass/Volume Calculation "Determination of density"

Date tested: 20/04 - 07/05/12
Date reported: 07/05/12

This report may only be reproduced in full

Approved
D Hotham
Designation: Assistant Laboratory Manager
Date: 02/04/12
# Rigid Cellular Plastics Test Report

**Attention:** Wayne Watson  
**Expol**  
**P O Box 13560**  
**Onehunga**  
**Auckland 1643**

**Project:** Product Evaluation  
**Client:** Expol  
**Contractor:** Expol  
**Sampled by:** Expol  
**Date sampled:** 18/04/12  
**Sampling method:** Not Stated  
**Sample description:** 30kg/m³ Polystyrene  
**Sample condition:** As Received

<table>
<thead>
<tr>
<th>Sample No.</th>
<th>Density kg/m³</th>
<th>Compressive Stress at relative deformation (kPa)</th>
<th>1.0%</th>
<th>2.0%</th>
<th>5.0%</th>
<th>10.0%</th>
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</thead>
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<td>50.9</td>
<td>114.9</td>
<td>182.4</td>
<td>201.4</td>
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<tr>
<td>2</td>
<td>30.4</td>
<td>54.5</td>
<td>120.8</td>
<td>182.4</td>
<td>200.2</td>
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<tr>
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<td>30.5</td>
<td>50.9</td>
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<tr>
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<td>30.5</td>
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<tr>
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<td>54.1</td>
<td>117.7</td>
<td>180.6</td>
<td>198.8</td>
<td></td>
</tr>
</tbody>
</table>

**Test Methods**

- AS 2498.3 - 1993
- "Method 3: Determination of compressive stress"
- "Determination of density"

**Date tested:** 20/04 - 07/05/12  
**Date reported:** 07/05/12  
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**Approved**

Signature: D Hotham  
**Designation:** Assistant Laboratory Manager  
**Date:** 07/05/12

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