**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

### Test Results

<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>
</tr>
<tr>
<td>2</td>
<td>20.3</td>
<td>54.5</td>
<td>104.3</td>
<td>139.8</td>
<td>158.8</td>
</tr>
<tr>
<td>3</td>
<td>20.5</td>
<td>45.1</td>
<td>92.6</td>
<td>134.1</td>
<td>155.5</td>
</tr>
<tr>
<td>4</td>
<td>20.3</td>
<td>42.6</td>
<td>91.1</td>
<td>133.7</td>
<td>155.0</td>
</tr>
<tr>
<td>5</td>
<td>20.5</td>
<td>47.8</td>
<td>93.2</td>
<td>132.6</td>
<td>151.7</td>
</tr>
<tr>
<td><strong>Mean</strong></td>
<td><strong>20.4</strong></td>
<td><strong>49.0</strong></td>
<td><strong>96.8</strong></td>
<td><strong>135.3</strong></td>
<td><strong>154.9</strong></td>
</tr>
</tbody>
</table>

### 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
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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0%</td>
<td>2.0%</td>
</tr>
<tr>
<td>1</td>
<td>30.6</td>
<td>50.9</td>
</tr>
<tr>
<td>2</td>
<td>30.4</td>
<td>54.5</td>
</tr>
<tr>
<td>3</td>
<td>30.5</td>
<td>50.9</td>
</tr>
<tr>
<td>4</td>
<td>30.5</td>
<td>56.0</td>
</tr>
<tr>
<td>5</td>
<td>31.0</td>
<td>58.3</td>
</tr>
</tbody>
</table>

Mean: 30.6  54.1  117.7  180.6  198.8

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

Approval

D Hotham
Assistant Laboratory Manager
07/05/12

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