## Hyperelastic Model Data

<table>
<thead>
<tr>
<th>Best Fit Model</th>
<th>Constants</th>
<th>Average Percent Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mooney-Rivlin 2-Parameter</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$C_{10} = 3.5122 \times 10^5 \text{ Pa}$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$C_{01} = 3.0613 \times 10^4 \text{ Pa}$</td>
<td>12.4%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Hyperelastic Models</th>
<th>Constants</th>
<th>Average Percent Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yeoh 1st Order</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$C_{10} = 3.7952 \times 10^5 \text{ Pa}$</td>
<td>12.6%</td>
</tr>
</tbody>
</table>

| Yeoh 3rd Order                |                      |                       |
|                                | $C_{10} = 4.1864 \times 10^5 \text{ Pa}$ | 13.3%                 |
|                                | $C_{20} = -5.8702 \times 10^4 \text{ Pa}$ |                       |
|                                | $C_{30} = 1.7811 \times 10^4 \text{ Pa}$ |                       |

![Graph of Hyperelastic Models](image-url)
### Linear Approximation Model Data

<table>
<thead>
<tr>
<th>Strain Range</th>
<th>Linear Elastic Constants</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\varepsilon = 0$ to $10%$</td>
<td>$E = 2.332$ MPa, $\nu = 0.5$</td>
</tr>
<tr>
<td>$\varepsilon = 0$ to $25%$</td>
<td>$E = 1.693$ MPa, $\nu = 0.5$</td>
</tr>
<tr>
<td>$\varepsilon = 0$ to $50%$</td>
<td>$E = 1.430$ MPa, $\nu = 0.5$</td>
</tr>
</tbody>
</table>

**Notes:**

All testing done at room temperatures and at quasi-static loading rates.

The data provided above is done so for the convenience of designing with Dow products. It is expected that use of this data in computer-based simulations will be accompanied with sound engineering practices of analysis, physical testing, and the proper application of relevant regional building codes.

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