Energy absorption of foam materials can be important for application where the foam is used to protect an item or person from impacts. This energy absorbed by a foam is dependent on a range of variables including the raw material, the density, the impact speed and the thickness of the foam under test. Generally the stiffer and more dense a foam is the greater the energy it can absorb.

The data presented in the table below has been obtained from compression deflection measurements taken at a velocity of 100 mm/min with a sample size of 100mm x 100mm x 30mm. These values are intended for guidance only as they are based on one off test results.

Dynamic performance will be similar, with energy absorption capacity slightly enhanced.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Energy Absorbed J/cm³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10%</td>
</tr>
<tr>
<td>Plastazote® LD24</td>
<td>0.002</td>
</tr>
<tr>
<td>Plastazote® LD33</td>
<td>0.003</td>
</tr>
<tr>
<td>Plastazote® LD45</td>
<td>0.005</td>
</tr>
<tr>
<td>Plastazote® LD60</td>
<td>0.011</td>
</tr>
<tr>
<td>Plastazote® LD70</td>
<td>0.010</td>
</tr>
<tr>
<td>Plastazote® HD30</td>
<td>0.011</td>
</tr>
<tr>
<td>Plastazote® HD60</td>
<td>0.035</td>
</tr>
<tr>
<td>Plastazote® HD80</td>
<td>0.047</td>
</tr>
<tr>
<td>Plastazote® HD115</td>
<td>0.060</td>
</tr>
<tr>
<td>Evazote® EV50</td>
<td>0.002</td>
</tr>
</tbody>
</table>

Please contact our technical Support team if you require any further information on this topic.
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