Zotefoams plc

Technical Information Sheet – TIS 09
(previously T13)
Energy Absorption Capacity of Azote Foams

INTRODUCTION
The energy absorption characteristics of Plastazote foams are shown in the table for compressions at velocities of 100 mm/min.
Dynamic performance will be similar, with energy absorption capacity slightly enhanced.
The data given is for the first compression on samples 100 x 100 x 30 mm.

<table>
<thead>
<tr>
<th>Grade</th>
<th>10%</th>
<th>20%</th>
<th>30%</th>
<th>40%</th>
<th>50%</th>
<th>60%</th>
<th>70%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastazote® LD24</td>
<td>0.002</td>
<td>0.006</td>
<td>0.012</td>
<td>0.019</td>
<td>0.029</td>
<td>0.043</td>
<td>0.064</td>
</tr>
<tr>
<td>Plastazote® LD33</td>
<td>0.003</td>
<td>0.008</td>
<td>0.015</td>
<td>0.024</td>
<td>0.036</td>
<td>0.052</td>
<td>0.078</td>
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<tr>
<td>Plastazote® LD45</td>
<td>0.005</td>
<td>0.013</td>
<td>0.022</td>
<td>0.034</td>
<td>0.048</td>
<td>0.067</td>
<td>0.095</td>
</tr>
<tr>
<td>Plastazote® LD60</td>
<td>0.011</td>
<td>0.026</td>
<td>0.042</td>
<td>0.061</td>
<td>0.083</td>
<td>0.123</td>
<td>0.149</td>
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<tr>
<td>Plastazote® LD70</td>
<td>0.010</td>
<td>0.028</td>
<td>0.046</td>
<td>0.067</td>
<td>0.092</td>
<td>0.111</td>
<td>0.168</td>
</tr>
<tr>
<td>Plastazote® HD30</td>
<td>0.011</td>
<td>0.025</td>
<td>0.039</td>
<td>0.056</td>
<td>0.075</td>
<td>0.098</td>
<td>0.129</td>
</tr>
<tr>
<td>Plastazote® HD60</td>
<td>0.035</td>
<td>0.085</td>
<td>0.134</td>
<td>0.185</td>
<td>0.243</td>
<td>0.312</td>
<td>0.403</td>
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<tr>
<td>Plastazote® HD80</td>
<td>0.047</td>
<td>0.124</td>
<td>0.202</td>
<td>0.281</td>
<td>0.366</td>
<td>0.468</td>
<td>0.601</td>
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<tr>
<td>Plastazote® HD115</td>
<td>0.060</td>
<td>0.168</td>
<td>0.275</td>
<td>0.383</td>
<td>0.501</td>
<td>0.641</td>
<td>0.821</td>
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<tr>
<td>Propozote® PPA30</td>
<td>0.009</td>
<td>0.020</td>
<td>0.033</td>
<td>0.047</td>
<td>0.064</td>
<td>0.085</td>
<td>0.113</td>
</tr>
<tr>
<td>Evazote® EV50</td>
<td>0.002</td>
<td>0.005</td>
<td>0.011</td>
<td>0.018</td>
<td>0.027</td>
<td>0.042</td>
<td>0.063</td>
</tr>
</tbody>
</table>

The stiffer and more dense the foam, the greater the energy absorbed.

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