

# Plastazote® LD18

## Low Density Polyethylene Foam

### Product Information

#### Typical Values

Plastazote® is a closed cell, cross-linked polyethylene block foam manufactured using Zotefoams unique production process.

The values provided in this product information represent data gathered from random samples of our production of Plastazote® LD18 foam and represent typical data. These are given to the best of our knowledge and should be considered as guidance for selecting a suitable grade for a given application.

| Property  | Test Standard                   | Units             | Typical value |
|---|---------------------------------|-------------------|---------------|
| <b>Apparent Density</b>                           |                                 |                   | (nominal)     |
| Skin/Skin   | BS EN ISO 7214:2012             | kg/m <sup>3</sup> | 18            |
| <b>Cell Size (Cell Diameter)</b>                  | Internal                        | mm                | 0.8           |
| <b>Compression Stress-Strain</b>                  | BS EN ISO 7214:2012             | kPa               |               |
| 25% compression                                   | 25 mm cell-cell                 |                   | 50            |
| 50% compression                                   |                                 |                   | 112           |
| <b>Tensile Strength</b>                           | BS EN ISO 7214:2012             | kPa               | 299           |
| <b>Tensile Elongation</b>                         |                                 | %                 | 110           |
| <b>Flammability</b>                               |                                 |                   |               |
| <b>Automotive</b>                                 | FMVSS.302 – Burn rate           | <100mm/min.       | Pass at 13mm  |
| <b>Compression Set</b>                            | BS EN ISO 7214:2012             | % set             |               |
| 25% comp., 22hr, 23°C                             | 25 mm cell-cell                 |                   |               |
| ½ hr recovery                                     |                                 |                   | 11            |
| 24 hr recovery                                    |                                 |                   | 4             |
| <b>Tear Strength</b>                              | BS EN ISO 8067:2008<br>Method B | N/m               | 1317          |
| <b>Shore Hardness</b>                             | BS EN ISO 868:2003              |                   |               |
| OO Scale  |                                 |                   | 50            |
| <b>Recommended maximum operating temperature*</b> | Internal                        | °C                | 95            |
| <b>Thermal conductivity</b>                       | ISO 8301:1991                   | W/mK              | 0.039         |
| Mean temperature 10°C                             |                                 |                   |               |

#### \* RECOMMENDED MAXIMUM OPERATING TEMPERATURE

The maximum operating temperature shown is defined as the temperature which will typically cause a linear shrinkage of 5% after a 24hr exposure period, using sample dimensions of 100mm x 100mm x 25mm. This figure is provided for general guidance only. The actual level of shrinkage the foam will undergo at any particular temperature is dependant on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period.

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