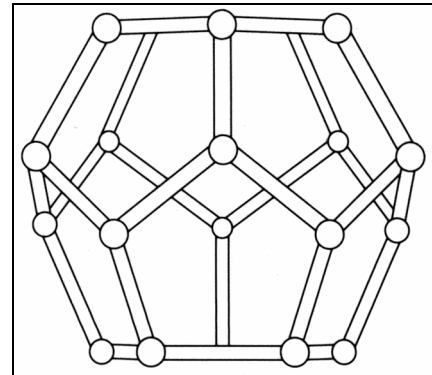


# Plastazote® LD32CN

## Conductive Low Density Polyethylene Foam Property Data Sheet



Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using Zotefoams unique production process. This data sheet characterises Plastazote foam LD32CN which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

| Property  | Test Procedure        | Units             | LD32CN                    |
|---|-----------------------|-------------------|---------------------------|
| <b>Nominal Density - Skin/Skin</b>              | BS ISO 7214 1998      | kg/m <sup>3</sup> | 32                        |
| <b>Cell Size – Typical Diameter</b>             | Internal              | mm                | 1.0                       |
| <b>Compression Stress-Strain</b>                | BS ISO 7214 1998      |                   |                           |
| 10% compression                                 |                       | kPa               | 68                        |
| 25% compression                                 |                       | kPa               | 84                        |
| 40% compression                                 |                       | kPa               | 117                       |
| 50% compression                                 |                       | kPa               | 152                       |
| <b>Compression Set</b>                          | BS ISO 7214 1998      |                   |                           |
| 25% comp., 22hr, 23°C                           | 25 mm cell-cell       |                   |                           |
| ½ hr recovery                                   |                       | % set             | 9.5                       |
| 24hr recovery                                   |                       | % set             | 4                         |
| 50% comp., 22hr, 23°C                           |                       |                   |                           |
| ½ hr recovery                                   |                       | % set             | 21                        |
| 24hr recovery                                   |                       | % set             | 14                        |
| <b>Tensile Strength</b>                         | ISO 7214 1998         | kPa               | 340                       |
| <b>Tensile Elongation</b>                       |                       | %                 | 50                        |
| <b>Tear Strength</b>                            | BS EN ISO 8067 1995   | N/m               | 445                       |
| <b>Shore Hardness OO Scale</b>                  | ISO 868 1985          |                   |                           |
| 10mm cell/cell thickness                        |                       | OO                | 55                        |
| <b>Recommended operating temperature range*</b> | Internal              | °C                | +95 max<br>-70 min        |
| <b>Thermal Conductivity</b>                     | ISO 8302 1991         | W /m.K            | 0.0377                    |
| mean temp of 10°C                               |                       |                   |                           |
| <b>Flammability</b>                             |                       |                   |                           |
| <b>Automotive</b>                               | FMVSS.302 – Burn rate | <100mm/min.       | Pass: 7 mm<br>and thicker |
| <b>Electrical Conductance</b>                   |                       |                   |                           |
| <b>Volumetric Resistivity</b>                   | ASTM D991-89          | ohm.cms           | 5x10 <sup>3</sup>         |



#### **\* RECOMMENDED OPERATING TEMPERATURE RANGE**

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. Please refer to Technical Bulletin T2 for more detailed information.

#### **HEALTH & SAFETY**

A separate data sheet (T5) entitled "Health and Safety Information" should be consulted.

#### **PRODUCT SPECIFICATION**

This Property Data Sheet provides typical properties on representative samples of material. For a product specification please refer to data sheet T7.

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