

## Specification Sheet / 01 LD45



ISO9001, ISO14001, ISO45001  
Certificate Ref: 11739

| Property                                                  | Test Procedure                     | Units             | Value                 |
|-----------------------------------------------------------|------------------------------------|-------------------|-----------------------|
| Nominal density- skin/Skin                                | BS ISO 7214 1998                   | kg/m <sup>3</sup> | 45                    |
| Cell Size- Typical Diameter                               | Internal                           | mm                | 0.4                   |
| Compression Stress- Strain<br>10% compression             | BS ISO 7214 1998                   | kPa               | 77                    |
| Compression Stress- Strain<br>25% compression             | BS ISO 7214 1998                   | kPa               | 94                    |
| Compression Stress- Strain<br>40% compression             | BS ISO 7214 1998                   | kPa               | 130                   |
| Compression Stress- Strain<br>50% compression             | BS ISO 7214 1998                   | kPa               | 170                   |
| Compression Set<br>25% comp 22 Hr 23°C<br>1/2 hr recovery | BS ISO 7214 1998<br>25mm cell-cell | % Set             | 7.5                   |
| Compression Set<br>25% comp 22 Hr 23°C<br>24 hr recovery  | BS ISO 7214 1998<br>25mm cell-cell | % Set             | 2.5                   |
| Compression Set<br>50% comp 22 Hr 23°C<br>1/2 hr recovery | BS ISO 7214 1998<br>25mm cell-cell | % Set             | 18.5                  |
| Compression Set<br>50% comp 22 Hr 23°C<br>24 hr recovery  | BS ISO 7214 1998<br>25mm cell-cell | % Set             | 10                    |
| Tensile Strength                                          | ISO 7214 1998                      | kPa               | 560                   |
| Tensile Elongation                                        | ISO 7214 1998                      | %                 | 175                   |
| Tear Strength                                             | BS EN ISO 8067 1995                | N/m               | 1150                  |
| Shore Hardness OO scale<br>10mm cell/cell thickness       | ISO 868 1985                       | OO                | 60                    |
| Reccomended Operating<br>Temperature Range*               | Internal                           | °C                | +105 Max<br>-70 min   |
| Thermal Conductivity<br>Mean Temp 10°C                    | ISO 832 1991                       | W/m.K             | 0.042                 |
| Flammability<br>Automotive                                | FMVSS.302-Burn rate                | <100mm/min        | Pass: 5mm and thicker |
| Horizontal Burn Rate<br>5mm Thick                         | ISO 7214 1998                      | mm/sec            | 1.3                   |
| Horizontal Burn Rate<br>13mm Thick                        | ISO 7214 1998                      | mm/sec            | 0.7                   |

**\*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 24 hr 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.

| Change Control Date | Change  |
|---------------------|---------|
| 23/10/2014          | Created |

