



## Adhesive Backed Materials Ltd

ABM, Geith Ind Est, Crown Business Park, Tredegar, Gwent, UK. NP22 4EF  
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### LD45FR-Flame-Retarded Low Density Polyethylene Foam

| Property             | Detail                                                             |
|----------------------|--------------------------------------------------------------------|
| <b>Material Type</b> | Closed cell, cross-linked polyethylene block foam (flame retarded) |

#### Technical Data

| Property                                 | Test Standard                        | Units             | Typical Value      |
|------------------------------------------|--------------------------------------|-------------------|--------------------|
| Apparent Density (nominal) - Skin/Skin   | BS EN ISO 7214:2012                  | kg/m <sup>3</sup> | 45                 |
| Cell Size (Cell Diameter)                | Internal                             | mm                | 0.4                |
| <b>Compression Stress-Strain</b>         | BS EN ISO 7214:2012                  | kPa               |                    |
| 25% compression (25 mm cell-cell)        |                                      |                   | 88                 |
| 50% compression                          |                                      |                   | 162                |
| Tensile Strength                         | BS EN ISO 7214:2012                  | kPa               | 449                |
| Tensile Elongation                       |                                      | %                 | 158                |
| Flammability - Aviation (12 second test) | CS 25.853 / FAR 25.853 App. F 1a 1ii |                   | Pass at 3mm & 12mm |
| Flammability - UL94 (at 3mm)             | UL94 Ed.6                            |                   | HF1                |
| <b>Compression Set</b>                   | BS EN ISO 7214:2012                  | % set             |                    |
| 25% comp., 22hr, 23°C (25 mm cell-cell)  |                                      |                   |                    |
| ½ hr recovery                            |                                      |                   | 8                  |
| 24 hr recovery                           |                                      |                   | 3                  |
| Tear Strength (Method B)                 | BS EN ISO 8067:2008                  | N/m               | 2404               |
| Shore Hardness (OO Scale)                | BS EN ISO 868:2003                   |                   | 61                 |



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|                                              |                    |      |       |
|----------------------------------------------|--------------------|------|-------|
| Recommended maximum operating temperature    | Internal           | °C   | 105   |
| Water Absorption                             | ISO 2896:2001 Ed3. | %    | <1    |
| Thermal Conductivity (Mean temperature 10°C) | ISO 8301:1991      | W/mK | 0.038 |

*The above figures are average values and should be considered as guidelines not specifications. While reasonable care has been taken to ensure that this data is representative, we do not warrant or otherwise guarantee, expressly or impliedly, the suitability, accuracy, reliability or completeness of the information. We recommend evaluation prior to use to ascertain the suitability of the material for the application.*