



### Lamacell Thermal Insulation

Lamacell thermal insulation is a high quality flexible closed cell material offering excellent isolating qualities.

The material is an elastomeric rubber, Black in colour with a smooth tough outer skin and due to its flexibility is easily applied to curved surfaces or deformed to fit complex shapes.

The material has the additional benefit of being exceptionally fire resistive, meeting the requirements of Class 'O' to Building Regulations.

- **Class O Fire rating**
- **Built in vapour barrier prevents condensation**
- **Reduce Energy loss by up to 87%**
- **Lightweight & Flexible: ease and speed of installation**
- **Excellent resistance to the effects of ozone, oil, chemicals**
- **Duct, fibre and CFC free with an Ozone Depletion Potential of Zero**

#### Applications

The product is used in many varied applications and industries including construction, marine, automotive, H & V and OEM.

Common applications include: pipe lagging, duct insulation, thermal insulation for chilled services, heating ducts and pipes. Can be used as resilient spacing layer or as fixed gasket.

#### Installation

The material is normally adhered to the background surface using a separate adhesive or by means of the optional self-adhesive backing (see specification sheet on self-adhesive films for properties and limitations). Additionally the product can be mechanically fixed (using large headed fixings or spreader washers). Our insulation support pins and non-return washers represent a suitable fixing.

Please contact our technical team for advice on suitable adhesives and mechanical fixings.

#### Specification

Product	Lamacell Thermal Insulation
Type	Foamed Nitrile Rubber
Colour	Black
Density	~60 kg/m <sup>3</sup>
Fire Performance	BS 476, Part 6: I <sub>k</sub> 12, i <sub>k</sub> 6 BS 476, Part 7: Class 1 Class 0 to Building Regulations
Thermal Conductivity (EN ISO 8497)	0°C : 0.034 W/m.k +20°C : 0.036 W/m.k +40°C : 0.038 W/m.k
Maximum application temperature	+105°C
Minimum application temperature	-50°C (for application between -50°C and -200°C please contact our technical department)
Water vapour permeability (EN ISO 9346)	Resistance : 7,000 Permeability : 2.79 x10
Water Absorption (ASTM C 209)	0.2% by volume
Standard thickness	3, 6, 9, 13, 19, 25, 32 (other thicknesses may be available on request)
Roll width	1000mm nominal
Other Forms	Linear 3D sections & die-cut parts

Detailed mechanical & chemical performance information available on request.