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Behind LaminaHeat are composite engineers – specialists in thermoplastics who know the formulas for working materials and products.

Together with our electrical engineers, they develop individual solutions that pass the field test. A real benefit to you and your customers.



ComfortFilm Indoor Application

ComfortFilm is typically used in areas where a flat, homogenous and easy to handle heating film is required, such as residential or commercial buildings for flooring, wall and ceilings or heating of Mass Transportation vehicles like Railcars, Busses or Cruise ships.

ComfortFilm has excellent chemical resistance and is a tough material with good fatigue resistance, it can be embedded in most flooring materials and coatings and has a compatible surface material which is suitable for bonding with these materials.



ComfortFlex Textile Application

ComfortFlex is a flexible ComfortFilm heater that has adhesive properties and can be laminated directly on most textiles or other similar substrate materials. It also has the ability to be thermoformed into 2D shapes at low forming temperature. ComfortFlex is ideal for heated seats, work and leisure clothing, medical and physical therapy applications, heated blankets or mattresses. The proprietary conductive fibre heating distribution ensures that 99.7% of the electrical energy is converted into heat energy which is important when low power sources like batteries are being used or maximums energy efficiencies are required.





PowerMelt Outdoor Application

PowerMelt is especially suitable for operating at sub zero temperatures and is not affected by the environment; it has excellent low water absorption and electrical properties. This is combined with very good resistance to chemical attack and high environmental crack resistance.



PowerFabric Industrial Application

PowerFabric is a flexible textile heating material which can supply high power and temperatures up to 180 °C. It is versatile and can be applied to a large range of applications from de-icing of wind blades and heating of railcar floors, to heating of mould tools where a high performance heating system is required. It has very good



electrical/flammability properties and meets the requirements of UL 499. PowerFabric can be embedded in a large range of resins, adhesives and inorganic components. Liquid resins or Prepregs penetrate the open fibre structure and allow for an air-free impregnation either under vacuum or higher pressure.

The Facts Product Features



integration into existing processes, often without further capital investments.

etc.) allowing for very good mechanical and chemical bonds.

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State-of-the-art production process allows for widths of up to 2000mm on a continuous basis with very low tolerance variation. This leads to a very homogenous heat distribution over the entire surface area.



PROXIMITY TO SURFACE

Being a real full surface heater, and as thin as a human hair. LaminaHeat can be placed just millimetres away from the final radiating surface allowing for the most efficient heating solution.

finished product.

Strategic Markets Product Applications

 COMFORT

 Buildings Interiors

 Clothing & Textiles







Bridge De-icing Roof De-icing Airport Runway De-icing

Mushroom Farming Tooling Exotic Crops

Customer Benefits

Innovative Solutions

01

Add a new layer of technological competence

(Carbon fibre technology at competitive prices)

02

Fastest cycle time to market via it's established supply chain

(Customer avoiding complete development cycle)

03

Make existing products different and distinguish from competitors.



04

Open new markets previously not reachable. Create added value for final customer.

Our Technology Special Features

Very thin surface heater

Operates from 7.4 V to 680 V. Can generate from 10W/m2 to 5KW/m2.

CF embedded in a large variety of polymers or fabrics.

Allows to meet very specific individual customer needs for highest efficiency.



Short carbon fibres arranged in a very homogenous layout.

Allow for a very thin layer of heating

CERT further enhances the ability to customise resistance

distribution over the full surface and shapes flexibility.

Locations

Contact Details

UK Lamina

Wales, UK

LaminaHeat LLC-

Greenville, SC, USA

LaminaHeat Spain

Barcelona, Spain



LaminaHeat Holding

Leixlip, Ireland

Lamina GmgH Kirchheimbolanden, Germany

Italia Lamina

Vigevano, Pavia, Itlay

Morroco Lamina

Morrocco, North Africa

LaminaHeat

Capetown, South Africa

Headquarters (Ireland)



Map Key

Manufacturing Plant (Ireland)

LaminaHeat Corporations and Authorised Distributors



Lamina t Russia

Moscow, Russia

LaminaHeat Korea Gyeonggi-do, South Korea

LaminaHeat Nuan Nong Nong

Chengdu, China

Janmor Technologies

Morrinville, New Zealand.

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