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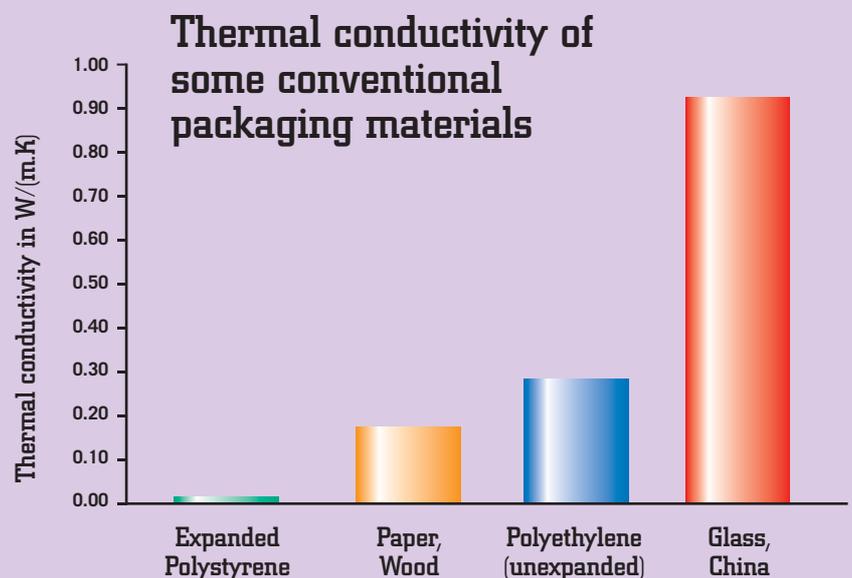
EPS

If maintaining a secure cold chain is vital for your temperature-sensitive products during transit – expanded polystyrene (EPS) is the packaging material for you.

98% Air

The composition of EPS – it has a closed-cell foam structure consisting of microscopically small air bubbles - makes it the simplest and lowest cost thermal insulator, its average rate of thermal conductivity is 0.037 W/(m.K) at 15g/l density.

Compare the low mean thermal conductivity of EPS with some other packaging materials. (see fig. right.)



White Magic

The white, sterile appearance of EPS makes it an attractive packaging material in pharmaceutical and food and drink applications.

This fresh, clean look underlines the quality of your product and the care that you have taken to pack it safely and hygienically.

EPS has been approved as a food packaging material that can safely be in contact with food.

Formula 1 uses EPS

The Williams Formula 1 team has their meat delivered all over the globe in specially designed EPS insulation boxes.

“It’s difficult for racing teams to get top quality meat as they travel around the Formula 1 circuit,” says Simon Smith of Coventry butchers Aubrey Allen, which supplies the Williams’ team.

“This packaging means we

can prepare the best meat products in the UK, seal them in boxes with ice blankets and forward them to the caterers who deliver to tracks from Monza to Monte Carlo”.

The boxes, which are supplied by Styropack, have also been used by Aubrey Allen to send meat to the England football team and to TV celebrity chefs, including Rick Stein.

100% Recyclable

EPS is 100 per cent recyclable and in the UK is currently being recycled at higher levels than glass or aluminium. If environment credentials are important to your organisation you need have no qualms about using EPS.

Protection Guaranteed

In addition to insulation, EPS offers great protection for valuable or fragile items.

However you plan to transport your products, by road, rail, air or sea; through high or low temperature zones; a pack can be designed and pre-tested so that when you use it you can guarantee your product's safe arrival.

Transporting Vaccines around the world

The world-wide, research-based pharmaceutical company, Schering-Plough, produces Paracox[®], the world's premier vaccine that protects chickens from coccidiosis, a highly infectious parasitic infection that affects poultry worldwide and Paracox[®] 5, an 'all-natural' product that is suitable for free-range and organically-raised chickens.

Packaging Technologist, Maria Eldridge-Brown, is responsible for ensuring that these vaccines can be safely sent all over the world: "Our customers expect vaccines to

be packed in EPS because of its insulating properties."

"I worked with LINPAC Moulded Foams to design a box that would hold the plastic phials safely in place and with the help of a gel pack would maintain the stable temperature needed for the vaccine."

"The vaccines must be kept at a stable temperature within 2°C and 8°C and this had to be achieved on local journeys and trips to New Zealand which can last up to 36 hours".

Totally Reliable

EPS is totally reliable. Its strength and insulation properties are unaffected by wet or damp conditions and it does not become brittle at low temperatures.

EPS has excellent compressive strength with good buckling resistance, boxes can be safely stacked without any detrimental effect on your products.

Design to Insulate

EPS is a versatile material that can be designed to exactly meet your packaging requirements.

For detailed advice contact any member of the EPS Packaging Group (see over page for contact details).

In the meantime six ways to design for insulation are:

- Increase package wall thickness
- Reduce the internal surface area; tailoring the pack to fit closely to the products and using a cubic pack design will achieve this.
- Increase the bulk density of EPS
- Ensure the connections between the upper and lower parts of the pack are airtight by means of well-fitting tongue and groove joints.
- Controlling air circulation in the pack with internal ribs
- Increase maximum insulation time and performance by adding a coolant into the pack.

Suppliers of EPS Packaging

The members of the EPS Packaging Group (a member group of the British Plastics Federation) make up 85 per cent of the UK EPS Packaging industry and are the leading EPS manufacturers in the UK.

Some of these manufacturers have several sites in the UK, for a full list, please visit the Suppliers section on our website www.eps.co.uk

● Linpac Molded Foams Ltd

Quarry Lane Ind. Est.
Chichester
W. Sussex PO19 2NY
Tel 01243 779598
Fax 01243 532204
www.linpac.com

○ Rosslite Ltd

Poron Works, Torpoint
Cornwall PL11 3AX
Tel 01752 822551
Fax 01752 823551
www.rosslite.co.uk

● SCA Tuscarora

Cornhill Close
Lodge Farm Ind. Est.
Northampton NN5 7UB
Tel 01604 596 800
Fax 01604 759 024
www.tuscarora.com

● Simplipac Ltd

Balena Close
Creekmoor Industrial Estate
Creekmoor, Poole
Dorset BH17 7DG
Tel: 01202 694259
Fax: 01202 600640
www.simplipac.co.uk

● Springvale EPS Ltd

75 Springvale Road
Doagh, Ballyclare
Co. Antrim BT39 0SS
Tel 028 9334 0203
Fax 028 9334 1159
www.springvale.com

● Sundolitt Ltd

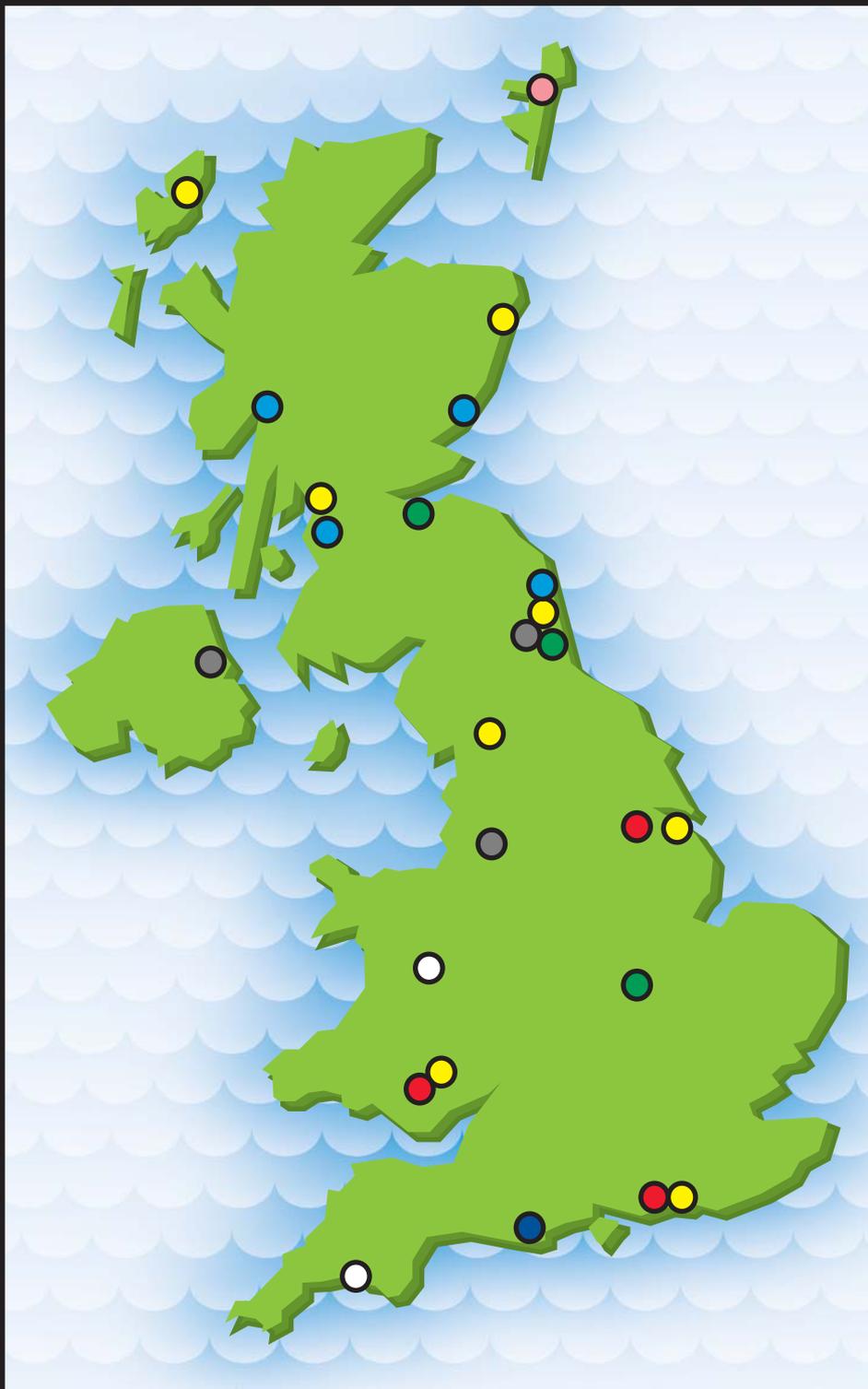
St James House
Linwood Road
Renfrewshire
Scotland PA3 3AS
Tel 0141 887 1123
Fax 0141 889 9878
www.sundolitt.co.uk

● Styropack (UK) Ltd

Craigshaw Road
West Tullos Ind. Est.
Aberdeen AB12 3AS
Tel 01224 873166
Fax 01224 873361
www.styropack.co.uk

● Thulecraft Ltd

Northside, Baltasound
Shetland EE2 9DS
Tel 01595 693192
Fax 01595 692615



For more information about
EPS Packaging in the UK
please contact
Andrew Barnetson on
020 7457 5014 or visit our
website www.eps.co.uk