

KaysersbergPlastics

a part of DS Smith Plastics

Correx® Extruded Polypropylene Twinwall Sheet An Environmental Assessment

Kaysersberg Plastics, part of DS Smith Plastics Limited, is the manufacturer of Correx® twinwall polypropylene sheet. We operate a programme of continuous improvement in our environmental performance and pollution prevention. We aim to reduce the environmental impact of our business and to operate in an environmentally responsible manner.

We ensure that the Company complies with all relevant environmental legislation and regulations.

The Material

Correx® sheet is a lightweight hollow material made from polypropylene copolymer, an oil derivative.

The Manufacturing Process and Energy Consumption

Solid granules are melted and extruded through a die to produce a hollow profile sheet. The sheet is calibrated and cut to the customer specification. Non-toxic additives may be used to enhance sheet properties, and to extend its useful life.

The energy needed to produce one kilogram of sheet is approximately one kilowatt-hour.

Consumption is minimised by a program of continuous improvement. Recent improvements include improved power factor correction, installation of Power Perfector voltage optimisation equipment, extruder barrel and die insulation, and low energy lighting with auto sensing. The success of our energy reduction programs has been rewarded with the maximum 80% exemption from the UK Government Climate Change Levy for each of the last five years.

Correx® Environmental Benefits

- Correx® has a hollow structure and can be made in a range of weights and thickness. This allows us to optimise the properties of the sheet for each application to ensure maximum performance with minimum use of material and energy.
- Reusable transit packaging products made from Correx® sheet often replace single-use packaging alternatives made with higher energy consumption. Achieving multiple uses dramatically reduces the environmental impact per trip.
- In construction applications Correx® sheet provides a high level of temporary protection during building projects, reducing damage and waste. The material can often be re-used, and is easily recycled.
- Correx® is increasingly used as shuttering to form foundation beams. In this application it replaces plywood, and provides permanent water resistant protection.

Recycling / Recovery

Correx® sheet is fully recyclable. Clean material can be readily reprocessed to make new sheet, and material with light contamination can be re-used to make products with higher wall thickness (heavy duty pipe, large section profiles etc)

Energy recovery

Polypropylene has a high calorific value of more than 40MJ/kg and is an ideal material for use in modern incinerators where it can aid the burning of municipal waste.

Conclusion

Correx® polypropylene twinwall sheet is a unique material that offers durable, lightweight solution in packaging and construction applications where it often has significantly lower environmental impact than the products it replaces.

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