



CARBON FOOTPRINT

KRAIBURG TPE GmbH & Co. KG
Location Waldkraiburg

OUR CONTRIBUTION TO THE PROTECTION OF THE ENVIRONMENT

Climate change has become one of the most pressing issues of the 21st century.

In its decision-making processes, KRAIBURG TPE always takes into account economical, ecological and social concerns.

With regard to the protection of the environment and occupational safety, it is our objective to protect resources, reduce or possibly avoid emissions and waste, and take effective measures to prevent accidents. We are certified in accordance with the environmental management standard ISO 14001, and using the international energy standard ISO 50001 we have established an important basis for systematic and effective energy and environmental management.

This has enabled KRAIBURG TPE to record, optimize and finally minimize all relevant energy flows. An annual action plan determines appropriate measures for protecting the environment and saving energy, which are implemented within as short a time as possible.

RECYCLING

Thermoplastic elastomers of KRAIBURG TPE can be recycled up nearly up to 100%. Due to uncured molecular chains, it is possible to melt down the thermoplastic elastomers again and again.

This characteristic allows you to lead back the thermoplastic elastomers into its manufacturing process. Therefore, you save material and even more preserve the environment.

PRODUCT CARBON FOOTPRINT (PCF)

The product carbon footprint is a measure for the amount of greenhouse gas emissions caused by a product over its entire life cycle.

Apart from the production phase, the product carbon footprint also includes the emissions caused during the utilisation and disposal of a product. In other words, it measures the impact of a product on the environment from „cradle to grave“.

LIMITATIONS OF PRODUCT CARBON FOOTPRINTS

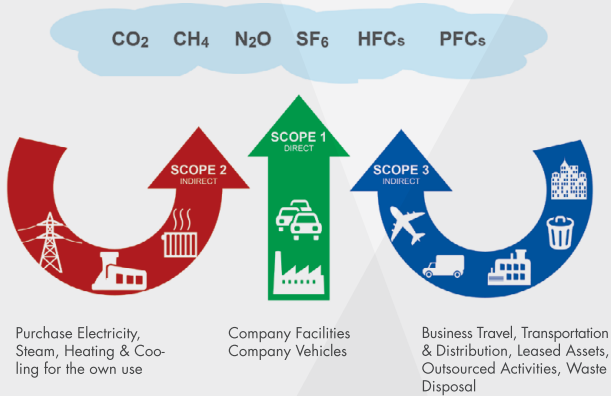
The carbon footprint measures only the greenhouse gases emitted by a product over its lifecycle. It is therefore not an indicator for the overall environmental impact of a product.

Instead of disposing of thermoplastic elastomers from KRAIBURG TPE, you can completely recycle them. This environment-friendly aspect is not taken into account when a material's product carbon footprint is calculated. Due to these limitations in the product carbon footprint, KRAIBURG TPE provides information about the comprehensive corporate carbon footprint.

CORPORATE CARBON FOOTPRINT

The corporate carbon footprint includes all greenhouse gas emissions attributable to a company. It thus measures the greenhouse gas emissions caused on the company's premises, i.e. from gate to gate. For this calculation, KRAIBURG TPE takes into account scope I, II and III.

- Scope I** All direct greenhouse gas emissions from sources controlled by the company.
- Scope II** All indirect greenhouse gas emissions from consumption of purchased energy.
- Scope III** All other indirect greenhouse gas emissions arising related to the activities of the company, but that are not under its control.



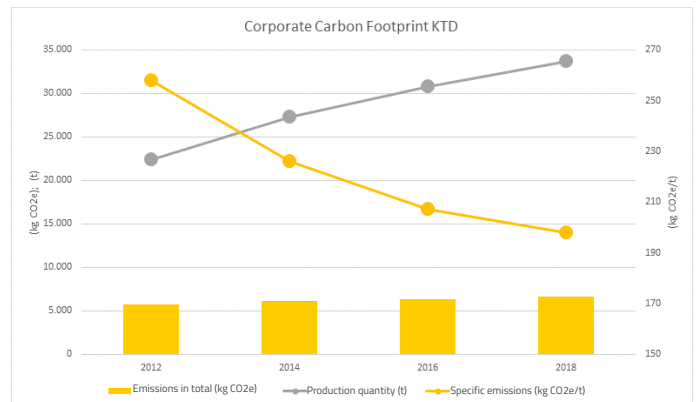
It distinguishes between direct, self-induced emissions (Scope I) and impact of preceding and subsequent stages (Scope II & III).

CALCULATION OF THE CORPORATE CARBON FOOTPRINT

For the calculation of the carbon footprint, KRAIBURG TPE applies the methods of ISO 14044 (lifecycle assessment). The resulting figures form one part of the comprehensive ecological impact assessment.

FACTS AND FIGURES

Over the last six years we have improved our specific energy consumption, the major measured variable for energy efficiency, by 11.5%. We were able to reduce the specific carbon emission (corporate carbon footprint) by more than 23%.



Part of the total energy KRAIBURG TPE uses is emission-free energy generated by its own solar power systems and waste heat from the manufacturing process. We precisely analyze the consumption of power, gas, compressed air and water by means of an energy data collection system, reliably identify potential savings and take remedial actions as soon as possible.

OUTLOOK

We take our responsibility towards society and future generations seriously and act accordingly. That's why we have again set ambitious targets for the future:

- Reduction of the electrical peak load
- Reduction of specific power consumption < 330 kWh/t
- Reduction of specific CO₂ emissions
- Intensified use of renewable energy
- Global further development of the energy management system

Europe, Middle East, Africa

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