

**Caretta returns approx. 2,500 tons of hard to separate soft PVC material, lined with fleece, woven fabric or polyester, into the production cycle every year.**

In the past three years Caretta has developed a technique for separating fabric, tissue, etc. from soft PVC foils, and thus closed the cycle (to sustainability) from hard to separate PVC foil towards recyclability.



Industrial and previously used soft PVC recyclable materials, such as synthetic leather or swimming pool foils containing fabrics or textiles, are shredded, granulated and sifted, screened and separated. 100% of the resulting soft PVC recyclate is used in Caretta's fabric sheet and foil production.

Caretta produces soft PVC products for the construction industry, such as damp proof courses, floor screed films and flat foils. By adding additives, Caretta can manufacture these products in oil- and bitumen-resistant quality. Sound absorbing foils are also placed under hardwood and laminate flooring, and soundproof mats (soft PVC clad with foams) for pipe insulation.

To technically solve the sifting process perfectly is not a new idea. This has been solved by various very competent mid-sized companies such as Trenns Technik in Weissenhorn. For Caretta, however, it was crucial that the cost of treating foil products clad with fleece, fabric or textiles, and thus difficult to dispose of, is integrated into the production process as cost-effectively as possible.



Caretta has achieved this by combining separation components from different suppliers, including Trenso Technik, and thereby attained a significant advantage: cost leadership!

In doing so, Caretta relies on partnerships to maintain and further expand its system leadership in foil production from recyclable materials.

To do so, an extraction unit assembled from various system components was installed for Hemawe in Erfurt. Hemawe is a recycling company that demonstrates its expertise for example as the sales partner of AMIS - RECYCLING TECHNIK in the new federal states of the former GDR.



Recyclable materials clad with fleece, fabric or textiles are poured into a shredder from above and chopped into sections approximately 4 - 6 cm long. The system is geared to deliver 1,000 kg of output per hour.



The shredded sections are then processed into granulate via a conveyor belt that is coupled to the volume intended for further processing. The screen used determines the grain size.

The result of the collaboration between **Caretta** and Hemawe is impressive: More than 200 tons of recyclable materials from old PVC fabric sheets are processed every month, then shipped to the **Caretta**-foil works in Hohnstein near Dresden, Romania and Hungary, where they are processed into **Caretta** products.

These **Caretta** products ([www.caretta-folie.de](http://www.caretta-folie.de)) are sold across Europe to large construction material partnerships and specialized dealers of building materials.

In this way, currently more than 2,500 tons of soft PVC recyclable materials are reintroduced into the production process every year.



The Caretta team continues to work on repeatedly reintroducing our valuable synthetic resources in a sustainable manner.

# Caretta<sup>®</sup>

**PVC weich Recyclate + Agglomerate**

Soft PVC recyclate + agglomerates