

- CreaSolv®

## CreaSolv®

Together with our partner, the German [Fraunhofer Institute for Process Engineering and Packaging IVV-Freising](#), we engage in continuous optimization of a recycling process which recovers sorted plastics from waste electrical devices. The pilot plant in Freising has demonstrated that this process, called CreaSolv® is both eco-efficient and commercially viable.

Old washing machines, mobile phones, etc. contain large fractions of various plastics which, for the most part, are heavily polluted and contaminated by hazardous substances. Bromine-containing flame retardants are particularly problematic in terms of an ecologically adequate recycling, since they may release toxic dioxins during reprocessing.

Ours is the first successful technique for the separation of plastics from pollutants, dirt deposits and flame retardants by means of an eco-friendly solvent. The result: cleanly sorted "second-hand" plastic granulates. The quality grade of this secondary raw material is comparable to virgin plastics.

We managed to process two and a half tons of plastics from waste electrical devices into more than one ton of granulate in the Freising pilot plant. At present we manage to remove 90 percent of all pollutants. In terms of commercial viability, the process proved efficient as well, since the extraction solvent is reused on several occasions during the cycle.

A study of various recycling technologies conducted by UK-based non-profit organization WRAP (The Waste and Resources Action Programme) presents the CreaSolv® process as the winner, both in terms of ecology and commercial viability.