

# Excellence in Reprocessed Granular.



# Efficient recycling of engineering plastics

## FLUOROPLASTICS



### MINGAFLUOR

- » PVDF
- » ECTFE
- » PFA
- » Compounds

### Fluoroplastics

- Polyvinylidene fluoride PVDF
- Ethylene chlorotrifluoroethylene ECTFE
- Ethylene tetrafluoroethylene ETFE
- Perfluoroalkoxylalkane PFA
- Perfluoro (ethylene propylene) plastic FEP

The production systems used are specially designed for fluoroplastics in order to optimally maintain the product properties.

## PEEK PLASTICS



### MINGAPEEK

- » PEEK
- » PEEK MICRO
- » Compounds

### PEEK high-performance plastics

The high-performance material PEEK is produced using material-appropriate systems. Especially with this high quality material, you benefit from a processing method developed by us: Adapted washing processes clean the chips and molded parts that come from the processing of semi-finished products to clean granules.

## POLYAMIDE



### MINGAMID

- » PA 12
- » PA 11

### Polyamide specialties

We compound additional Mingamid products on request.

We produce our plastics exclusively from clean and sorted industrial waste, so that we can guarantee you consistent and excellent material quality with every batch.

## POLYETHYLENE/ POLYPROPYLENE



### MINGALEN & MINGAPROP

- » PE
- » PPC
- » PPH

### These are the recycled plastics polyethylene and polypropylene

The standard plastic polyethylene PE is available from us under the brand name Mingalen, the plastic polypropylene PP under the name Mingaprop. Both types of material are created exclusively on the basis of clean and sorted industrial waste. Therefore, these types of material are characterized by a constant and excellent material quality. Our PE and PP types are available for both injection molding and extrusion.

# Recycling up to date



**Save money. Assure quality. Protect the environment!**  
**Recycled plastics reduce costs and are a necessary contribution to environmental protection.**

On the one hand, the recycling of plastics produces high-quality secondary raw materials and thus conserving natural resources. On the other hand, the emission of climate-damaging greenhouse gas emissions and the use of natural primary resources are demonstrably reduced through the use of recycling materials. Recycling plastics of MCAM Symalit, Appenzell Branch, Recycling Solutions can be a commercially attractive alternative to new materials. The high-quality products are prepared according to uniform quality standards.

We have been making our know-how available internationally for decades and are proud of our partner network of well-known production companies from the plastics processing industry. We are one of the world's most

experienced processors for PEEK, fluoroplastics and polyamides.

We have been making our know-how available internationally for decades and are proud of our partner network of well-known production companies from the plastics processing industry. We share our performance and quality philosophy with them, which is based on continuity, exchange of experience, flexibility and above all innovation. Our acute sense for customer needs is reflected in the selected range of materials, our services and processes. All of our processes are ISO 9001 certified.

## **KAITEKI Value for Tomorrow** Mitsubishi Chemical Holdings Group

MCAM Symalit AG, Appenzell Branch, Recycling Solutions is the Swiss subsidiary of Mitsubishi Chemical Advanced Materials AG, a leading global manufacturer of high-performance materials, who acquired the recycling activities of Minger Kunststofftechnik AG in February 2020.

Mitsubishi Chemical Advanced Materials is thus consolidating its leading role in promoting resource-efficient management.

As a Mitsubishi Chemical Holdings Corporation (MCHC Group) company, we express our commitment to sustainable development through the vision "Realizing KAITEKI". As The KAITEKI Company, we are committed to sustainability for people, society and the planet Earth as a central value. We actively contribute to offering solutions for the circular economy.

# Careful preparation and technically mature equipment

## RECYCLING



### Professional and customer-oriented

To allow you to concentrate on your core competencies, we take care of professional recycling and all the necessary tasks for you:

- Disposal including proof of disposal
- Materials purchase (see AEB)
- Provision of containers and exchange containers; Bale press system on request
- Compounding, granulation and material processing according to customer requirements
- Retrieval of sublots
- Creation of disposal and recycling concepts for your plastic production waste

## GRINDING



### Grinding, dedusting and demetallizing

For optimal further processing, we carefully label and sort the delivered material - starting from about 1000 kg. We take on all standard thermoplastics (for example production scrap, sprues, chunks, large-volume molded parts, powders, foils, profiles, filaments) and grind them, including dedusting and demetallization. Select the desired grinding range between 6 mm and 10 mm yourself and you will receive the regrind flexibly and on time as standard in octabins or big bags for your production.

## REGRANULATING



### For the best processing procedure

We take over the regranulation of all common thermoplastics, for example from production scrap, sprues or molded parts as well as from ground material. We can even handle materials that are difficult to compound, such as foils or plastics containing fibers. If necessary, the material is homogenized so that uniform processing parameters are achieved. On request, we can also compound various additives as part of the regranulation according to your production requirements.

## COMPOUNDING



### Additivation and coloring

We dye granules for you according to any color sample (for example RAL, Pantone, HKS) and do it in small batches. With small batch sizes, you can make an important contribution to sustainability with us as a partner—quite simply and economically.

We are also proficient in handling additives with special pigments and the improvement of technical properties.

## SORTING AND CLEANING



### Purest granulate thanks to high-end sensor technology

One thing is essential for plastic production and processing: Purity. With a future-oriented inspection, analysis and sorting system we ensure highest level of material purity. We are one of the first companies worldwide to use this X-ray technology in recycling.

A scanner checks the finished plastic granulate grain by grain for metallic and organic contamination under clean room conditions.

## TOLL GRINDING



### Toll grinding all common thermoplastics

Do you want to regranulate your thermoplastic waste and residues, but do not have any free capacity or do you want to outsource production for economic reasons?

Then our toll grinding is the perfect recycling concept for you.

As a customer, you benefit from our extensive experience as well as from our professional production area and quality management. We are ISO 9001: 2015 certified and, thanks to the most modern analysis technology, we are able to carry out a 100% inspection of the plastic regranulate.

Verteilt durch:

**MCAM Symalit AG, Appenzell Branch, Recycling Solutions**

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MCAM Symalit, Appenzell Branch markets and sells their products under the names of MingaPEEK, Mingafluor, Mingamid, Mingalen and Mingaprop.

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