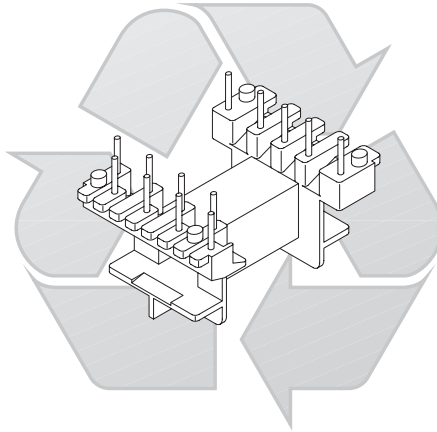


## Choose the right plastic material

Within the scope of producing your individual component, many different technical requirements have to be coordinated for the plastic material used.

In many cases “over-qualified” and, hence, more expensive plastics are chosen and used.



The following should be examined in advance:

- Specified quality standards
- Required UL conformity/UL listing
- Country-specific requirements
- Necessary properties for processing and end use

With our support you can create a harmonious connection between quality, costs, and the environment.

For component production we offer a wide range of plastics in many different grades. With your specifications we will be pleased to help you to choose alternative plastic grades taking economic, but especially ecological, aspects into consideration.

### Virgin material

Manufacturers also describe original material as *virgin material*. Regular quality inspections guarantee consistency in the quality of the products and processing. Corresponding certificates for the different material batches confirm the quality standard.

### Compound

In a *compound*, fillers, reinforcing agents, or other additives are added in the melting process. This enables, for example, mechanical or thermal properties of *virgin material* to be improved. With *ground materials*, compounding can generally restore the quality standard of the original *virgin material*. The *compound* is subsequently granulated, which allows it to be further processed without any problems.

### Regranulate

This term covers, for example, secondary material (*ground material*) that is melted to facilitate further processing and then regranulated. Depending on the quality specification for the required component a certain amount of virgin material can be added to the *regranulate* in the production process.

### Ground material

*Ground material* is unblended secondary material. The plastic particles are ground and the dust is removed so that the material can be reused. Unblended *ground material* can be added to *virgin material* in the component production process. The product grade achieved with pure ground material is usually inadequate due to undefined fragments occurring in the grinding process, which causes large fluctuations in the processing phase.

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