



Manufacture of Plastic Prototypes

PLASTIC INJECTION MOLDING PROTOTYPES

KEY WORDS

PROTOTYPES,
INJECTION MOLDING,
CUSTOM SERVICE

DESCRIPTION

Plastic prototype manufacturing using injection molding, taking into account the client's agreement regarding mold costs, dimensions, and structure for subsequent injection. Variables such as pressure, temperature, and forming time are analyzed. This allows for the validation of functionality, shape, and consistency of parts, even with recycled material. Results are compared against prototypes made with virgin material, and eco-design options are explored, such as weight and thickness reduction without compromising key properties. Ideal for Small and Medium-sized Enterprises (SMEs) and Research and development (R&D) projects seeking to optimize design, quality, and sustainability in plastic products.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Injector
- Measurement of injection variables in pressure, temperature and time.
- Mold design
- 3D printers
- Plastic injection molding machine
- Thermoformer

APPLICATIONS

- Producers of containers, packaging and plastic items interested in adding a percentage of recycled material to their composition

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