



Analysis of Plastic Prototypes

EVALUATION OF PLASTIC PROTOTYPES WITH INJECTION VARIABLES

KEY WORDS

PROTOTYPES,
INJECTION,
PRESSURE

DESCRIPTION

Universidad Central (UC) has the capability to evaluate plastic prototypes using injection molding machines, analyzing variables such as pressure, temperature, and formation time. 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 analyzed, 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.

APPLICATIONS

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

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