



# Thermal Behavior Testing in Plastics

## VISCOSITY AND TEMPERATURE ANALYSIS IN PLASTICS

### KEY WORDS

VALUATION,  
PROPERTIES,  
THERMAL BEHAVIOR

### DESCRIPTION

Analysis of the thermal behavior of plastics through flow, melting point, and viscosity tests. The compatibility between different types of plastic Polietileno tereftalato (PET), Polietileno de alta densidad (PEAD), Polietileno de baja densidad (PEBD), Polipropileno (PP), Poliestireno (PS) y Policloruro de vinilo (PVC) is evaluated to obtain a recycled resin base suitable as a substitute input in manufacturing processes. Ideal for Small and Medium-sized Enterprises (SMEs) and Research and development (R&D) projects seeking to validate blends, improve product quality, reduce costs, and promote local production of recycled byproducts compared to virgin raw materials.

### AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Crusher
- Caldera
- Induction oven
- Muffle furnace
- Plastic Injection Molding Machine
- Thermoforming Machine
- Moisture Meter

### APPLICATIONS

- Recycled raw material for the production of various plastic products for construction, consumer goods, packaging and containers, textile fibers, household use, among others.

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