



Polymer Quality Control

QUALITY CONTROL OF POLYMER RAW MATERIALS AND FINISHED PLASTIC PRODUCTS

KEY WORDS

QUALITY CONTROL,
POLYMER RAW
MATERIALS,
FINISHED PLASTIC
PRODUCTS

DESCRIPTION

Development and implementation of quality control methods for thermoplastics, blends, composite and nanocomposite materials.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

Universal testing machine
Rheometers
Optical microscope with hot stage
Scanning electron microscope with elemental microanalysis (SEM / EDX)
Transmission electron microscope (TEM)
Infrared spectroscope with Fourier transform (FTIR, micro-FTIR) and attenuated total reflectance (ATR)
Atomic force microscope (AFM)
Differential scanning calorimeter (DSC)
Thermogravimetric analyzer (TGA)
Gel permeation chromatograph

APPLICATIONS

Polymer raw materials
Finished plastic products

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