UNIVERSIDAD CENTRAL

TECHNICAL SERVICE

Particle Size Measurement in Polymers

DYNAMIC LIGHT SCATTERING (DLS)

KEY WORDS

PARTICLES,

CONTAMINANTS,

SUSPENDED MATERIAL

DESCRIPTION

Dynamic Light Scattering (DLS) allows for the determination of particle size and distribution, as well as colloidal stability and zeta potential in polymers, emulsions, or suspensions. This technique enables the optimization of formulations, process control, and the development of nanocomposites, in addition to identifying contaminants in water or effluents associated with the production and post-consumption of plastics, thereby reducing environmental impacts and improving product quality.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Dynamic Light Scattering (DLS) Equipment

APPLICATIONS

- Determination of particle size and distribution
- Colloidal stability and zeta potential in emulsions and suspensions

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