



Analysis of the Optical Properties of Polymers

UV-VIS SPECTROSCOPY AND COLORIMETRIC ANALYSIS

KEY WORDS

OPTICS,
TRANSPARENCY,
COLOR

DESCRIPTION

The University of Aveiro offers advanced facilities and expertise for the optical characterization of materials, including UV-Vis spectrophotometers with integrating spheres, fluorescence spectroscopy, refractive index measurement, and colorimetric analysis. These tools enable precise evaluation of absorption, reflectance, transmittance, scattering, emission, and color parameters (Lab* and ΔE). Services include guidance on sample preparation, spectral measurements, and data analysis.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- UV-Vis-NIR Spectrophotometry
- Colorimeter

APPLICATIONS

- Quality control of films and coatings
- Evaluation of transparency and coloration
- Study of degradation by recycling or UV exposure
- Development of polymers and functional additives

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