

Plastics Technology, Lightweight Design

2. Measurement Systems



Material analysis

Gel-Permeations-Chromatography (GPC)

- Molecular weight distribution, Chain lengths analysis
- Molecule chains degradation, ageing experiments

Oxygen transmission rate measurement

- barrier properties of plastics versus oxygen, Oxygen permeability measurements
- DIN 53380, ASTM F2622

Water vapour transmission rate measurement

- barrier properties of plastics versus water vapour
- water vapor permeability measurements
- ASTM F-1249, TAPPI T557, JIS K-7129

Moisture Analyzer

- Measurement of residual humidity content
- DIN EN ISO 15512

Density Analyzer Scale

- Density determination of products with buoyancy force
- DIN EN ISO 1183-1

Sieve analysis

- Grain size determination and grain size distribution
- DIN 66165

Infrared spectroscopy

- To analyse the composition

sample preparation

- Microtome, Grinding and Polishing

