



## Testing

Solutions for the packaging sector

The production of excellent quality packaging is a must for all companies operating in the packaging sector. During the profitable production of packaging products, many challenges can arise from material to technological problems. Our experienced team and well-equipped testing and processing facilities offer services to help our Customers keep and gain an advantage in this competitive sector.

### Testing of raw materials and products:

- Material identification by FTIR/Raman spectrometry
- Identification of contaminants
- Flow property characterization by MFI
- Colour measurements
- Lab-scale production (film blowing, film extrusion, thermoforming, injection moulding)

### Mechanical testing of products:

- Tensile testing
- Peel/adhesion testing
- Static/dynamic ball burst testing
- Static and impact puncture testing

### Permeability testing:

- Water Vapor Transmission Rate (WVTR)
  - ASTM F1249 and ISO 15106-2
  - Test temperature: 15-50 °C
  - Test Humidity: 4-100%
  - Test range: 0.1-40 g/(m<sup>2</sup>·day)
- Oxygen Transmission Rate (OTR)
  - ASTM D3985 and ISO 15105-2
  - Test temperature: 10-55 °C
  - Test Humidity: 0%, 5-90%, 100%
  - Test range: 0.01-200 cm<sup>3</sup>/(m<sup>2</sup>·day)

### Analysis of multilayer products:

- Identification of the material and order of layers with Raman microscopy
- Measurement of the thickness of layers

