

# Polymer analysis – infrared spectrometer

## Technical data

Device	Bruker - ALPHA FT-IR spectrometer
Spectral range	375-7,500 $\text{cm}^{-1}$
Spectral resolution	better than 2 $\text{cm}^{-1}$
Wave number precision	0.01 $\text{cm}^{-1}$
Interferometer	RockSolid, permanently adjusted, Cubecorner, Goldspiegel

## Areas of use / applications

Structural clarification and the quantitative analysis of a mixture of substances by measuring the electromagnetic radiation

Quality control of raw materials up to the finished products

- Control of the identity of incoming substances

Quantification of included substances

- Determination of the concentrations of substances in a product

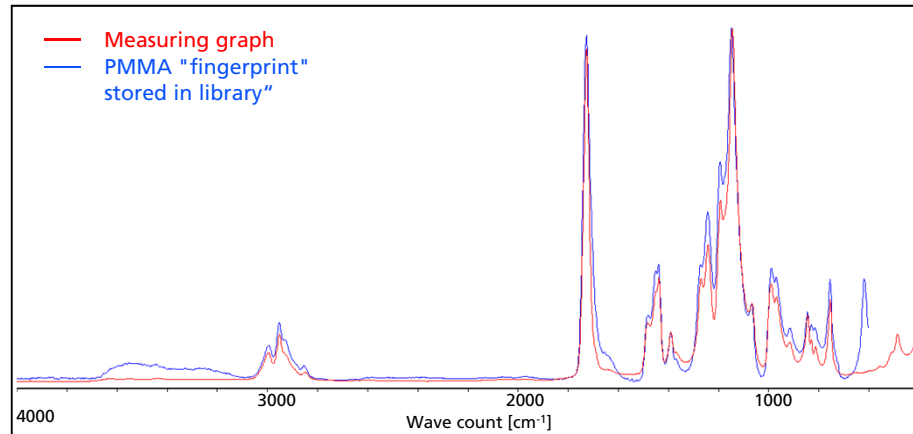
Identification of unknown substances

- non-destructive identification of unknown substances, e.g. in damage analysis



IR laboratory analysis of a solid

Mobile coating analysis in the field



Identification of polymethyl methacrylate (PMMA) through IR analysis