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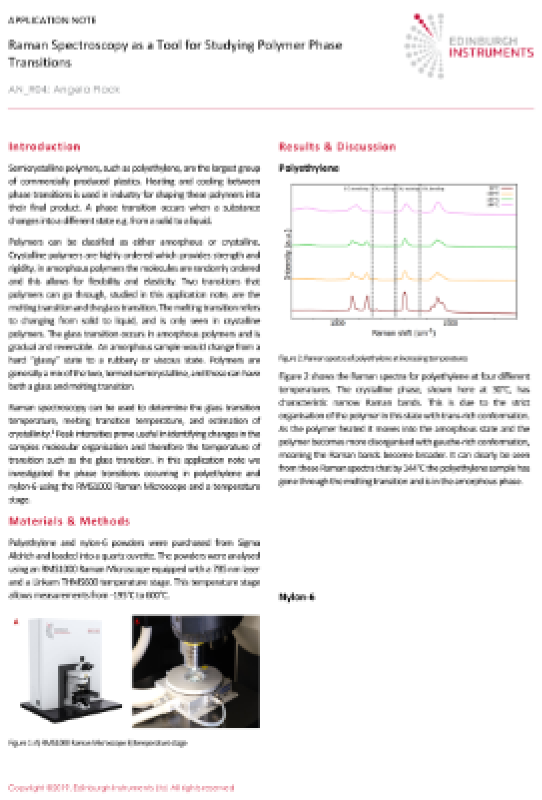
APPLICATION NOTE
Raman Spectroscopy as a Tool for Studying Polymer Phase Transitions
Introduction
Results & Discussion
Materials & Methods

Raman Spectroscopy as a Tool for Studying Polymer Phase Transitions

Semicrystalline polymers, such as polyethylene, are the largest group of commercially produced plastics. Heating and cooling between phase transitions is used in industry for shaping these polymers into their final product. A phase transition occurs when a substance changes into a different state e.g. from a solid to a liquid. In this application note a Raman microscope, with a heated stage, is used to observe phase transitions in two polymers; polyethylene, and nylon-6.

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