

Application of Pyrolysis Gas Chromatography in Forensic Science

REFERENCE: Blackledge RD: Application of pyrolysis gas chromatography in forensic science; *Forensic Sci Rev* 4:1-16; 1992.

ABSTRACT: In this review the range of evidentiary materials that may be successfully examined by pyrolysis gas chromatography is emphasized. Initial sections briefly discuss the main types of commercially available pyrolyzers, i.e., inductively heated devices (Curie point), those employing resistive heating, and furnace pyrolyzers. Sample introduction methods and the effects of various pyrolysis parameters are also considered. Applications to various types of samples, including paint, fibers, rubber and plastic traces, adhesives, photocopy toners, and hair, are then reviewed.

KEY WORDS: Adhesives, fibers, hair, paint, photocopy toners, plastic, pyrolysis, pyrolysis gas chromatography, rubber.