

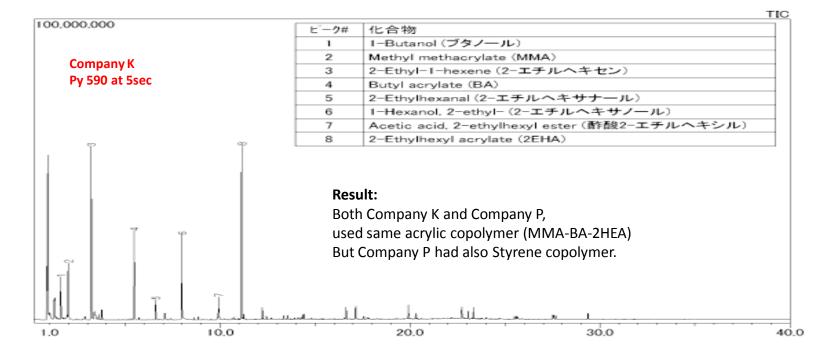
Curie Point Injector JCI-22 Adhesive and Tackifire

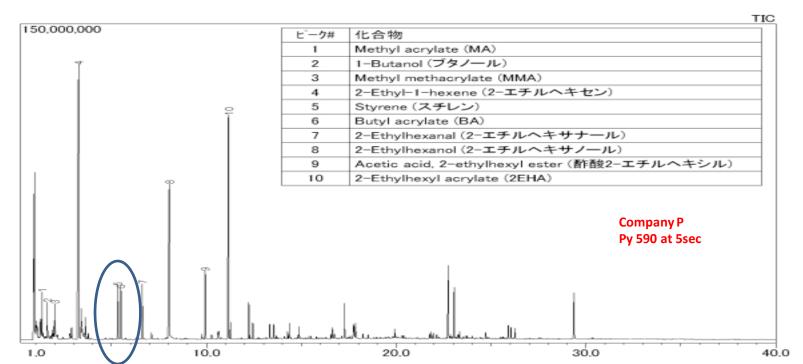
Point

- > 2 kinds of Tape Adhesive base polymer identifications by portable pyrolyzer
- > To detect Tackifire (rosin ester) by eliminating base polymer with a simple preparation

Sample:

Three different companies Tape Adhesives 0.5mg each





Tackifier in Adhesive

Background

Tape adhesive base polymer has weak stickiness itself. Generally tackifier is added and as tackifire, rosin ester is commonly used.

Put the tape adhesive sample directly to Py-GC/MS, there are many thermally decomposed peaks were detected from base polymer and this made it difficult to detect peaks from rosin ester.

Simple Preparation

Soak a peace of tape adhesive into Hexane solvent 50mL overnight to extract. Take only the surface area of the solvent and drop 20mL of methanol to eliminate polymer and evaporate. Pyrolysis only with remained solid.

Result

Rosin tackifier (main compound is Dehydroabietic acid, methyl este MW314) was detected. Also, it is reported applying Reaction Py-GC method using methylating agent, shaper peaks of Dehydroabietic acid, methyl este can be obtained.

