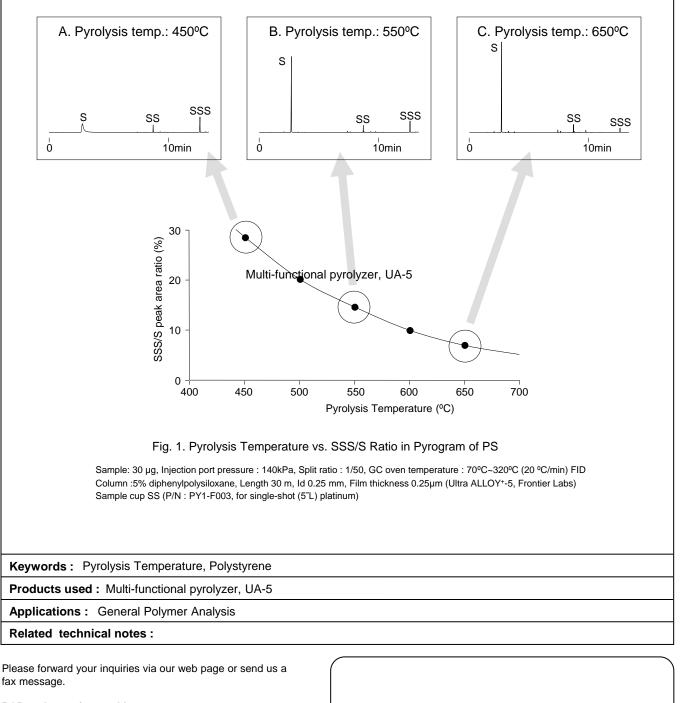


Effects of Pyrolysis Temperature to Pyrograms

In pyrolysis gas chromatography (Py-GC), the pyrolysis temperature of a sample is one of the most important factors influencing analytical results. Generally, as the pyrolysis temperature becomes higher, higher percentages of low molecular weight compounds of pyrolyzates are obtained. An effect of pyrolysis temperature to a pyrogram of polystyrene (PS) is described as an example. The pyrogram of PS (Table 1) contained styrene monomer (S), styrene dimer (SS) and styrene trimer (SSS). Higher pyrolysis temperature gave a lower percentage of SSS against S, and the ratio of SSS/S decreased almost linearly.



R&D and manufactured by : Frontier Laboratories Ltd.

Phone: (81)24-935-5100 Fax: (81)24-935-5102 http://www.frontier-lab.com/