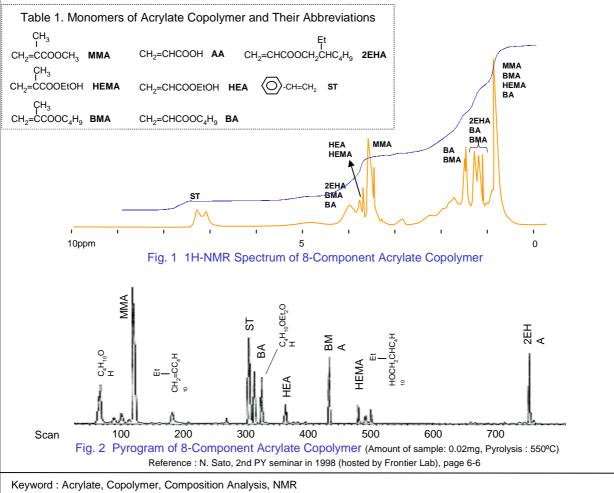


Composition Analysis of a Multi Component Acrylate Copolymer

NMR is used in composition analysis of polymers, however; its resolution is often inadequate for analysis of multi component copolymers. NMR alone therefore will not be good enough for detailed analysis. In these situations, Py-GC technique is extremely useful as a supplemental analytical tool. Fig. 1 shows ¹H-NMR spectrum of an acrylate copolymer which comprises of eight components as shown in Table 1. Because of poor resolution, peaks are heavily overlapping, making the analysis difficult. On the other hand, a pyrogram of the same sample obtained by Py-GC is shown in Fig. 2. Each peak is found to be well defined with all the components (except for AA) detected. As shown here, Py-GC technique coupled with NMR makes detailed analysis possible.



Application: General Polymer Analysis

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