

フマロニトリルの高圧共重合—penultimate 効果に対する圧力の影響—

*1 三菱レイヨン株式会社

*2 大阪市立大学工学部

榎本剛一*1・小郷良明*2・井本立也*2

Nippon Kagaku Zasshi, 91, 804~809 (1970)

High Pressure Copolymerization of Fumaronitrile—Effect of Pressure on the Penultimate Effect—

by Goichi ENOMOTO*1, Yoshiaki OGO*2 and Tatsuya IMOTO*2

Radical copolymerizations of fumaronitrile with styrene, 1,1-diphenylethylene, methyl acrylate, vinyl phenyl ether, α -methylstyrene and methyl methacrylate were investigated under high pressure up to 7000 kg./cm².

The copolymerizations of fumaronitrile with styrene, 1,1-diphenylethylene and vinyl phenyl ether having small e -value proceeded at sufficient rate under high pressure and the compositions of the copolymers were very similar to the composition of alternating copolymer.

The penultimate effect on the copolymerization system with fumaronitrile showed a tendency to decrease with increasing pressure. High pressure is presumed to be effective for eliminating the penultimate effect on the copolymerization.

*1 *Mitsubishi Rayon Co., Ltd.; Ushikawa-cho, Toyohashi-shi, Japan*

*2 *Osaka City University; Sugimoto-cho, Sumiyoshi-ku, Osaka-shi, Japan*