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Stretchability and Properties of Biaxially Oriented Polypropylene Film

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Stretchability and composition distribution of various polypropylenes (PP) for biaxially oriented film was investigated. Several different ethylene contents and melt flow indices (MI) of polypropylenes (PP) were examined. There was a correlation between MI, ethylene content and the stretchability of the DBTF. A random copolymer with MI 2 g/10min and ethylene content 4.0wt% gave good stretchability. The most suitable composition distribution for stretching and the properties of biaxially oriented films were reported.