

The improvement of foam processability based on viscoelastic properties of polymer blend

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Foam processability of the polymer blend is caused by rheological properties are founded on the compatibility of the related reactions. The influence on the viscoelastic properties of polymer blend is expected by observing the chain flocculation that is long blend relaxation time. Long relaxation time of the polymer blend is induced to the polymer melt fracture related to generate huge cells. This affect poor flow but also included expandable property. As a result, hardly designed the molding appearance. In case of Polypropylene, the poor drawing strength in molten state is difficult to manufacture the specific foaming mold instead of excellent impact resistance. The general manner for supplement is to improve the material properties through polypropylene blending. In our research, The correlation with the actual processability was identified from the expectation through the rheological results of polymer blend.