

Melt Strength Behavior of PP/Layered Silicate Nanocomposites

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Polymer/layered silicate nanocomposites have attracted substantial attention because of their superior physical and mechanical properties compared with virgin polymers or conventional composites.

For most polymers, including polyolefin, the direct melt-mixing method offers the most convenient and cost-effective means of preparing nanocomposites. In this study, we have fabricated layered silicate filled nanocomposite using a Brabender Plasticoder. And then we are investigating the effect of layered silicate fillers on the melt strength of polypropylene using molten rheometer and rheotens.