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A PROCESS FOR MELT GRAFTING ITACONIC ANHYDRIDE ONTO POLYETHYLENE

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Extrusion | Currently, extensive research in using bio-derived polymers is being done, highlighting the importance of sustainable, green polymeric materials. Some sustainable alternatives to synthetic polymers include lignin, starch, cellulose or blends of these with petroleum-based polymers. In this study, free radical grafting of itaconic anhydride (IA) onto polyethylene was investigated. IA was selected because it is capable of reacting with polyethylene and amino acid residues, such as lysine. The objective of the...

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