

Industrial ScaleUpHighMelting PLA

Theaim of this part of the project is to produce multifilament yarnwith high melting PLA in industrial scale.

Twoprocesswereprovided: discontinuous and continuousprocess: optimisation of discontinuousprocess- different parameters- achieving tenacity of N/tex0,30 and modulus of GPa5,6

New compound of highmelting PLAwastestedforbothprocesses:

- Discontinuous process: Spinning and drawing process were provided in two steps hydrolysis stabilized polymer of high Tm PLA large scale production with fineness of fibre 400/100 (flat yarn) achieving tenacity of N/tex 0.25.
- Continuous process: Spinning and drawing process in one step, large production with fineness of fibre 500/100 (flatyarn) achieving tenacity of N/tex
 0.25









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